SAFETY DATA SHEET TPL-63 Citrine

30579-1006

1. Identification	
Product identifier	
Product name	TPL-63 Citrine
Recommended use of the che	mical and restrictions on use
Application	ceramic glaze
Details of the supplier of the sa	afety data sheet
Supplier	
	American Art Clay Co Inc
	6060 Guion Road Indianapolis,
	IN 46254-1222
	USA
	Toll Free: 1-800-925-5195 ext. 1303
	Local: 1-317-243-0066 ext. 1303
Emergency telephone number	
Emergency telephone	1 317 243 0066 ext. 1303 Mon-Fri, 0900-1700 EST
2. Hazard(s) identification	
Classification of the substance	e or mixture
Physical hazards	Not Classified
Health hazards	Not Classified
Environmental hazards	Not Classified
Label elements	
Hazard statements	NC Not Classified
Other hazards	
none present	
3. Composition/information on	ingredients
Mixtures	
Composition comments	Only ingredients listed above are notifiable for this product. If none are shown then all ingredients are exempt.
4. First-aid measures	
Description of first aid measure	es
General information	
Ingestion	Do not induce vomiting. Rinse mouth thoroughly with water. Give a few small glasses of water or milk to drink. Get medical attention if any discomfort continues.
Skin Contact	Wash skin thoroughly with soap and water.
Eye contact	Rinse with water.
Most important symptoms and	effects, both acute and delayed

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Specific end use(s)	The identified uses for this product are detailed in Section 1.
Specific end uses(s)	
Storage precautions	Store in tightly-closed, original container in a dry and cool place.
Conditions for safe storage, in	
	of the body with soap and water before leaving the work site.
Coago procadiono	hygiene procedures should be implemented. Wash hands and any other contaminated areas
Usage precautions	Read label before use. Do not eat, drink or smoke when using this product. Good personal
Precautions for safe handling	
7. Handling and storage	
Reference to other sections	For waste disposal, see Section 13. For personal protection, see Section 8.
Methods for cleaning up	Collect spillage for reclamation or absorb in vermiculite, dry sand or similar material
Methods and material for cont	ainment and cleaning up
Environmental precautions Environmental precautions	Please read Section 2 completely. If any environmental warnings such as; H411 or H412 are listed in Section 2, please use appropriate procedures when disposing of product and container. Do not put materials into waterways or sewers.
Personal precautions	For personal protection, see Section 8.
	ve equipment and emergency procedures
6. Accidental release measure	
for firefighters	
Special protective equipment	Use protective equipment appropriate for surrounding materials.
Advice for firefighters	
Specific hazards	The product is not believed to present a hazard due to its physical nature.
Special hazards arising from the	he substance or mixture
Suitable extinguishing media	Use fire-extinguishing media suitable for the surrounding fire.
Extinguishing media	
5. Fire-fighting measures	
Notes for the doctor	Treat symptomatically.
Indication of immediate medic	al attention and special treatment needed
Eye contact	Read Section 2 for any specific precautions associated with the use of this product. In general most ceramic and special products contain materials that maybe abrasive to eyes. Keeping materials from contacting the eyes is prudent. If contact does occur, flush with clean water, do not rub.
Skin contact	Read Section 2 for any specific precautions associated with the use of this product. In general most ceramic glazes, clays and special products will tend to have a drying effect on the skin and may cause some sensitivity to users with sensitive skin.
Ingestion	Read Section 2 for any specific precautions associated with the use of this product. Products with specific warnings about ingestion will give guidance there.
Inhalation	Read Section 2 for any specific precautions associated with this product. In general, breathing any type of dust / mist can and may aggravate irritation of the throat and lungs.

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8. Exposure Controls/perso	nal protection
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Ingredient comments	Only ingredients listed n Section 3 are notifiable for this product. If none are shown then all ingredients are exempt.
Exposure controls	
Appropriate engineering controls	No specific ventilations requirements unless the "FAN" pictogram is shown above or specified in Section 2.
Eye/face protection	No specific eye protection required unless the "EYE PROTECTION" pictogram is shown above or specified in Section 2.
Hand protection	No specific hand protection required unless the "HAND PROTECTION" pictogram is shown above or specified in Section 2.
Hygiene measures	Using good personal hygiene practices is always appropriate. Keeping a clean work space, cleaning up properly when done, and not eating, drinking or smoking when using this product.
Respiratory protection	No specific respiratory protection required unless the "RESPIRATOR" pictogram is shown above or specified in Section 2. Using the appropriate certified protection for the operation is important if required.

9. Physical and Chemical Properties

Information on basic physical	and chemical properties
Appearance	Colored liquid.
Color	Various colors.
Odor	Almost odorless.
Odor threshold	No information available.
рН	6-8
Melting point	No information available.
Initial boiling point and range	No information available.
Flash point	No information available.
Evaporation rate	No information available.
Flammability (solid, gas)	No information available.
Upper/lower flammability or explosive limits	No information available.
Vapor pressure	No information available.
Relative density	Greater than 1.0
Solubility(ies)	Not applicable.
Partition coefficient	No information available.
Auto-ignition temperature	Not applicable.
Decomposition Temperature	No information available.
Viscosity	No information available.
Explosive properties	none
Oxidizing properties	none

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Other information	Not applicable.
10. Stability and reactivity	
Reactivity	There are no known reactivity hazards associated with this product.
Stability	No particular stability concerns.
Possibility of hazardous reactions	None known.
Conditions to avoid	None known.
Materials to avoid	None known.
Hazardous decomposition products	None known.
11. Toxicological information	
Information on toxicological eff	iects
Toxicological effects	Please read Section 2 thoroughly to understand the toxicological risks, (if any) and precautions for safe use (if any).
Skin corrosion/irritation	
Skin sensitization	
Skin sensitization	Based on available data the classification criteria are not met.
Eye contact	May cause temporary eye irritation.
12. Ecological Information	
Ecotoxicity	Please read Section 2 completely. If any environmental warnings such as; H411 or H412 are listed in Section 2, please use appropriate procedures when disposing of product and container. Do not put materials into waterways or sewers.
Toxicity	Please read Section 2 completely. If any environmental warnings such as; H411 or H412 are listed in Section 2, please use appropriate procedures when disposing of product and container. Do not put materials into waterways or sewers.
Persistence and degradability	
reisistence and degradability	
Persistence and degradability	No data available.
	No data available. Not inherently biodegradable.
Persistence and degradability	
Persistence and degradability Biodegradation	
Persistence and degradability Biodegradation Bioaccumulative potential	Not inherently biodegradable.
Persistence and degradability Biodegradation Bioaccumulative potential Partition coefficient	Not inherently biodegradable.
Persistence and degradability Biodegradation Bioaccumulative potential Partition coefficient Mobility in soil	Not inherently biodegradable. No information available.
Persistence and degradability Biodegradation Bioaccumulative potential Partition coefficient Mobility in soil Mobility	Not inherently biodegradable. No information available.

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General information	Dispose of waste product or used containers in accordance with local regulations When handling waste, the safety precautions applying to handling of the product should be considered.
14. Transport information	
General	The product is not covered by international regulations on the transport of dangerous goods (IMDG, IATA, DOT).
UN Number	
Not applicable.	
UN proper shipping name	
Not applicable.	
Transport hazard class(es)	
No transport warning sign re	equired.
Packing group	
Not applicable.	
Environmental hazards	
Not applicable	
Not applicable. Transport in bulk according Annex II of MARPOL 73/78 and the IBC Code	to Not applicable.
Transport in bulk according Annex II of MARPOL 73/78	to Not applicable.
Transport in bulk according Annex II of MARPOL 73/78 and the IBC Code 15. Regulatory information	to Not applicable.
Transport in bulk according Annex II of MARPOL 73/78 and the IBC Code 15. Regulatory information US State Regulations California Proposition 65 Ca	arcinogens and Reproductive Toxins
Transport in bulk according Annex II of MARPOL 73/78 and the IBC Code 15. Regulatory information US State Regulations California Proposition 65 Ca None of the ingredients are Massachusetts "Right To Ki	arcinogens and Reproductive Toxins listed or exempt.
Transport in bulk according Annex II of MARPOL 73/78 and the IBC Code 15. Regulatory information US State Regulations	arcinogens and Reproductive Toxins listed or exempt. now" List
Transport in bulk according Annex II of MARPOL 73/78 and the IBC Code 15. Regulatory information US State Regulations California Proposition 65 Ca None of the ingredients are Massachusetts "Right To Ku Present. Hydrated Aluminium Silicate 1-5% 2-aminoethanol	arcinogens and Reproductive Toxins listed or exempt. now" List
Transport in bulk according Annex II of MARPOL 73/78 and the IBC Code 15. Regulatory information US State Regulations California Proposition 65 Ca None of the ingredients are Massachusetts "Right To Ki Present. Hydrated Aluminium Silicate	arcinogens and Reproductive Toxins listed or exempt. now" List
Transport in bulk according a Annex II of MARPOL 73/78 and the IBC Code 15. Regulatory information US State Regulations California Proposition 65 Ca None of the ingredients are Massachusetts "Right To Ku Present. Hydrated Aluminium Silicate 1-5% 2-aminoethanol <1% Rhode Island "Right To Kuc	arcinogens and Reproductive Toxins listed or exempt. now" List

Minnesota "Right To Know" List

Present. Hydrated Aluminium Silicate 1-5% 2-aminoethanol <1%

New Jersey "Right To Know" List Present.

Hydrated Aluminium Silicate 1-5%

2-aminoethanol <1%

Pennsylvania "Right To Know" List

Present.

Hydrated Aluminium Silicate 1-5% 2-aminoethanol <1%

Inventories

Canada - DSL/NDSL All the ingredients are listed or exempt.

US - TSCA

All the ingredients are listed or exempt.

US - TSCA 12(b) Export Notification

All the ingredients are listed or exempt.

16. Other information	
General information	The following are the top 5 materials by weight listed for New Jersey (if applicable):- Water 7732-18-5, Non Lead Frit65997-18-4, Hydrated Aluminum Silicate1332-58-7, Zirconium Aluminum Silicate10101-52-7, Various Pigments
Revision date	7/6/2017
Revision	28
Supersedes date	7/6/2017
SDS No.	6011

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty, guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.

SAFETY DATA SHEET **TPL-03 ONYX**

1. Identification	
Product identifier	
Product name	TPL-03 ONYX
Recommended use of the che	emical and restrictions on use
Application	ceramic glaze
Details of the supplier of the s	afety data sheet
Supplier	American Art Clay Co Inc 6060 Guion Road Indianapolis, IN 46254-1222 USA Toll Free: 1-800-925-5195 ext. 1303 Local: 1-317-243-0066 ext. 1303
Emergency telephone numbe	<u>r</u>
Emergency telephone	1 317 243 0066 ext. 1303 Mon-Fri, 0900-1700 EST
2. Hazard(s) identification	
Classification of the substance	e or mixture
Physical hazards	Not Classified
Health hazards	Not Classified
Environmental hazards	Not Classified
Label elements Hazard statements Other hazards none present	NC Not Classified
3. Composition/information or	n ingredients
Mixtures Composition comments	Only ingredients listed above are notifiable for this product. If none are shown then all ingredients are exempt.
4. First-aid measures	
Description of first aid measur	res
General information	-
Ingestion	Do not induce vomiting. Rinse mouth thoroughly with water. Give a few small glasses of water or milk to drink. Get medical attention if any discomfort continues.
Skin Contact	Wash skin thoroughly with soap and water.
Eye contact	Rinse with water.
Most important symptoms and	d effects, both acute and delayed

Inhalation	Read Section 2 for any specific precautions associated with this product. In general, breathing any type of dust / mist can and may aggravate irritation of the throat and lungs.
Ingestion	Read Section 2 for any specific precautions associated with the use of this product. Products with specific warnings about ingestion will give guidance there.
Skin contact	Read Section 2 for any specific precautions associated with the use of this product. In general most ceramic glazes, clays and special products will tend to have a drying effect on the skin and may cause some sensitivity to users with sensitive skin.
Eye contact	Read Section 2 for any specific precautions associated with the use of this product. In general most ceramic and special products contain materials that maybe abrasive to eyes. Keeping materials from contacting the eyes is prudent. If contact does occur, flush with clean water, do not rub.
Indication of immediate medicate	al attention and special treatment needed
Notes for the doctor	Treat symptomatically.
5. Fire-fighting measures	
Extinguishing media	
Suitable extinguishing media	Use fire-extinguishing media suitable for the surrounding fire.
Special hazards arising from the	he substance or mixture
Specific hazards	The product is not believed to present a hazard due to its physical nature.
Advice for firefighters	
Special protective equipment for firefighters	Use protective equipment appropriate for surrounding materials.
6. Accidental release measure	95
Personal precautions, protection	ve equipment and emergency procedures
Personal precautions	For personal protection, see Section 8.
Environmental precautions	
Environmental precautions	Please read Section 2 completely. If any environmental warnings such as; H411 or H412 are listed in Section 2, please use appropriate procedures when disposing of product and container. Do not put materials into waterways or sewers.
Methods and material for cont	ainment and cleaning up
Methods for cleaning up	Collect spillage for reclamation or absorb in vermiculite, dry sand or similar material
Reference to other sections	For waste disposal, see Section 13. For personal protection, see Section 8.
Reference to other sections 7. Handling and storage	For waste disposal, see Section 13. For personal protection, see Section 8.
	For waste disposal, see Section 13. For personal protection, see Section 8.
7. Handling and storage	For waste disposal, see Section 13. For personal protection, see Section 8. Read label before use. Do not eat, drink or smoke when using this product. Good personal hygiene procedures should be implemented. Wash hands and any other contaminated areas of the body with soap and water before leaving the work site.
7. Handling and storage Precautions for safe handling	Read label before use. Do not eat, drink or smoke when using this product. Good personal hygiene procedures should be implemented. Wash hands and any other contaminated areas of the body with soap and water before leaving the work site.
7. Handling and storage Precautions for safe handling Usage precautions	Read label before use. Do not eat, drink or smoke when using this product. Good personal hygiene procedures should be implemented. Wash hands and any other contaminated areas of the body with soap and water before leaving the work site.
7. Handling and storage Precautions for safe handling Usage precautions Conditions for safe storage, in	Read label before use. Do not eat, drink or smoke when using this product. Good personal hygiene procedures should be implemented. Wash hands and any other contaminated areas of the body with soap and water before leaving the work site.
7. Handling and storage Precautions for safe handling Usage precautions Conditions for safe storage, in Storage precautions	Read label before use. Do not eat, drink or smoke when using this product. Good personal hygiene procedures should be implemented. Wash hands and any other contaminated areas of the body with soap and water before leaving the work site.

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8. Exposure Controls/persor	nal protection
Control parameters	
Occupational exposure limit	<u>s</u>
2-aminoethanol	
Long-term exposure limit (8- Short-term exposure limit (1 OSHA = Occupational Safet	-hour TWA): OSHA 3 ppm 6 mg/m³ -hour TWA): ACGIH 3 ppm 7.5 mg/m³ 5-minute): ACGIH 6 ppm 15 mg/m³ ty and Health Administration. -nce of Governmental Industrial Hygienists.
Ingredient comments	Only ingredients listed n Section 3 are notifiable for this product. If none are shown then all ingredients are exempt.
	2-aminoethanol (CAS: 141-43-5)
Immediate dan and health	nger to life 30 ppm
Exposure controls	
Appropriate engineering controls	No specific ventilations requirements unless the "FAN" pictogram is shown above or specified in Section 2.
Eye/face protection	No specific eye protection required unless the "EYE PROTECTION" pictogram is shown above or specified in Section 2.
Hand protection	No specific hand protection required unless the "HAND PROTECTION" pictogram is shown above or specified in Section 2.
Hygiene measures	Using good personal hygiene practices is always appropriate. Keeping a clean work space, cleaning up properly when done, and not eating, drinking or smoking when using this product.
Respiratory protection	No specific respiratory protection required unless the "RESPIRATOR" pictogram is shown above or specified in Section 2. Using the appropriate certified protection for the operation is important if required.

9. Physical and Chemical Properties

Information on basic physical and chemical properties	
Appearance	Colored liquid.
Color	Various colors.
Odor	Almost odorless.
Odor threshold	No information available.
рН	6-8
Melting point	No information available.
Initial boiling point and range	No information available.
Flash point	No information available.
Evaporation rate	No information available.
Flammability (solid, gas)	No information available.
Upper/lower flammability or explosive limits	No information available.

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Persistence and degradability		
Toxicity	Please read Section 2 completely. If any environmental warnings such as; H411 or H412 listed in Section 2, please use appropriate procedures when disposing of product and container. Do not put materials into waterways or sewers.	are
Ecotoxicity	Please read Section 2 completely. If any environmental warnings such as; H411 or H412 listed in Section 2, please use appropriate procedures when disposing of product and container. Do not put materials into waterways or sewers.	are
12. Ecological Information		
Eye contact	May cause temporary eye irritation.	
Skin sensitization Skin sensitization	Based on available data the classification criteria are not met.	
Toxicological effects Skin corrosion/irritation	Please read Section 2 thoroughly to understand the toxicological risks, (if any) and precautions for safe use (if any).	
Information on toxicological eff		
11. Toxicological information		
Hazardous decomposition products	None known.	
Materials to avoid	None known.	
Conditions to avoid	None known.	
Possibility of hazardous reactions	None known.	
Stability	No particular stability concerns.	
-		
Reactivity	There are no known reactivity hazards associated with this product.	
10. Stability and reactivity		
Other information	Not applicable.	
Oxidizing properties	none	
Explosive properties	none	
Decomposition Temperature Viscosity	No information available.	
Auto-ignition temperature	Not applicable.	
Partition coefficient	No information available.	
Solubility(ies)	Not applicable.	
Relative density	Greater than 1.0	
Vapor pressure	No information available.	

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Persistence and degradability	No data available.
Biodegradation	Not inherently biodegradable.
Bioaccumulative potential	
Partition coefficient	No information available.
Mobility in soil	
Mobility	Semi-mobile.
Other adverse effects	
Other adverse effects	None known.
13. Disposal considerations	
Waste treatment methods	
General information	Dispose of waste product or used containers in accordance with local regulations When handling waste, the safety precautions applying to handling of the product should be considered.
14. Transport information	
General	The product is not covered by international regulations on the transport of dangerous goods (IMDG, IATA, DOT).
UN Number	
Not applicable.	
UN proper shipping name	
Not applicable.	
Transport hazard class(es)	
No transport warning sign requ	lired.
Packing group	
Not applicable.	
Environmental hazards	
Environmentally Hazardous Substance Please refer to Section 2 for any environmental hazards associated with this product. If H411/H412 warnings are shown then please verify packaging and labeling requirements for larger volumes.	
Special precautions for user	
Not applicable.	
Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	Not applicable.
15. Regulatory information	
US State Regulations California Proposition 65 Carc	inogens and Reproductive Toxins

None of the ingredients are listed or exempt.

Massachusetts "Right To Know" List

Present. Hydrated Aluminium Silicate 1-5% 2-aminoethanol <1%

Rhode Island "Right To Know" List Present.

Hydrated Aluminium Silicate 1-5% 2-aminoethanol

<1%

Minnesota "Right To Know" List

Present.

Hydrated Aluminium Silicate 1-5% 2-aminoethanol

<1%

New Jersey "Right To Know" List Present.

Hydrated Aluminium Silicate 1-5%

2-aminoethanol <1%

Pennsylvania "Right To Know" List Present.

Hydrated Aluminium Silicate 1-5% 2-aminoethanol <1%

Inventories

Canada - DSL/NDSL All the ingredients are listed or exempt.

US - TSCA

All the ingredients are listed or exempt.

US - TSCA 12(b) Export Notification

All the ingredients are listed or exempt.

16. Other information	
General information	The following are the top 5 materials by weight listed for New Jersey (if applicable):- Water 7732-18-5, Non Lead Frit65997-18-4, Hydrated Aluminum Silicate1332-58-7, Zirconium Aluminum Silicate10101-52-7, Various Pigments
Revision date	7/6/2017

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Revision: 18

TPL-03 ONYX

Revision	18
Supersedes date	7/5/2017
SDS No.	6001

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty, guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.

SAFETY DATA SHEET TPL-28 Sapphire

1. Identification	
Product identifier	
Product name	TPL-28 Sapphire
Recommended use of the chemical and restrictions on use	
Application	ceramic glaze
Details of the supplier of the safety data sheet	
Supplier	
	American Art Clay Co Inc 6060 Guion Road
	Indianapolis,
	IN 46254-1222
	USA
	Toll Free: 1-800-925-5195 ext. 1303 Local: 1-317-243-0066 ext. 1303
Emergency telephone cumb	
Emergency telephone numb	
Emergency telephone	1 317 243 0066 ext. 1303 Mon-Fri, 0900-1700 EST
2. Hazard(s) identification	
Classification of the substan	ce or mixture
Physical hazards	Not Classified
Health hazards	Not Classified
Environmental hazards	Not Classified
Label elements	
Hazard statements	NC Not Classified
Other hazards	
none present	
3. Composition/information of	on ingredients
Mixtures	
Composition comments	Only ingredients listed above are notifiable for this product. If none are shown then all ingredients are exempt.
4. First-aid measures	
Description of first aid measured	ures
General information	_
Ingestion	Do not induce vomiting. Rinse mouth thoroughly with water. Give a few small glasses of water or milk to drink. Get medical attention if any discomfort continues.
Skin Contact	Wash skin thoroughly with soap and water.
Eye contact	Rinse with water.
Most important symptoms and effects, both acute and delayed	

Specific end uses(s) Specific end use(s)	The identified uses for this product are detailed in Section 1.
Storage precautions	Store in tightly-closed, original container in a dry and cool place.
Conditions for safe storage, in	
	of the body with soap and water before leaving the work site.
Codyo procadiona	hygiene procedures should be implemented. Wash hands and any other contaminated areas
Precautions for safe handling Usage precautions	Read label before use. Do not eat, drink or smoke when using this product. Good personal
7. Handling and storage	
Reference to other sections	For waste disposal, see Section 13. For personal protection, see Section 8.
Methods for cleaning up	Collect spillage for reclamation or absorb in vermiculite, dry sand or similar material
Methods and material for cont	ainment and cleaning up
Environmental precautions Environmental precautions	Please read Section 2 completely. If any environmental warnings such as; H411 or H412 are listed in Section 2, please use appropriate procedures when disposing of product and container. Do not put materials into waterways or sewers.
Personal precautions	For personal protection, see Section 8.
	ve equipment and emergency procedures
6. Accidental release measure	
for firefighters	
Special protective equipment	Use protective equipment appropriate for surrounding materials.
Advice for firefighters	
Specific hazards	The product is not believed to present a hazard due to its physical nature.
Special hazards arising from t	
Suitable extinguishing media	Use fire-extinguishing media suitable for the surrounding fire.
Extinguishing media	
5. Fire-fighting measures	
Notes for the doctor	Treat symptomatically.
Indication of immediate medic	al attention and special treatment needed
Eye contact	Read Section 2 for any specific precautions associated with the use of this product. In general most ceramic and special products contain materials that maybe abrasive to eyes. Keeping materials from contacting the eyes is prudent. If contact does occur, flush with clean water, do not rub.
Skin contact	Read Section 2 for any specific precautions associated with the use of this product. In general most ceramic glazes, clays and special products will tend to have a drying effect on the skin and may cause some sensitivity to users with sensitive skin.
Ingestion	Read Section 2 for any specific precautions associated with the use of this product. Products with specific warnings about ingestion will give guidance there.
Inhalation	Read Section 2 for any specific precautions associated with this product. In general, breathing any type of dust / mist can and may aggravate irritation of the throat and lungs.

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Ingredient comments	Only ingredients listed n Section 3 are notifiable for this product. If none are shown then all ingredients are exempt.
Exposure controls	
Appropriate engineering controls	No specific ventilations requirements unless the "FAN" pictogram is shown above or specified in Section 2.
Eye/face protection	No specific eye protection required unless the "EYE PROTECTION" pictogram is shown above or specified in Section 2.
Hand protection	No specific hand protection required unless the "HAND PROTECTION" pictogram is shown above or specified in Section 2.
Hygiene measures	Using good personal hygiene practices is always appropriate. Keeping a clean work space, cleaning up properly when done, and not eating, drinking or smoking when using this product.
Respiratory protection	No specific respiratory protection required unless the "RESPIRATOR" pictogram is shown above or specified in Section 2. Using the appropriate certified protection for the operation is important if required.

9. Physical and Chemical Properties

Information on basic physical	and chemical properties
Appearance	Colored liquid.
Color	Various colors.
Odor	Almost odorless.
Odor threshold	No information available.
рН	6-8
Melting point	No information available.
Initial boiling point and range	No information available.
Flash point	No information available.
Evaporation rate	No information available.
Flammability (solid, gas)	No information available.
Upper/lower flammability or explosive limits	No information available.
Vapor pressure	No information available.
Relative density	Greater than 1.0
Solubility(ies)	Not applicable.
Partition coefficient	No information available.
Auto-ignition temperature	Not applicable.
Decomposition Temperature	No information available.
Viscosity	No information available.
Explosive properties	none
Oxidizing properties	none

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Other information	Not applicable.
10. Stability and reactivity	
Reactivity	There are no known reactivity hazards associated with this product.
Stability	No particular stability concerns.
Possibility of hazardous reactions	None known.
Conditions to avoid	None known.
Materials to avoid	None known.
Hazardous decomposition products	None known.
11. Toxicological information	
Information on toxicological ef	fects
Toxicological effects	Please read Section 2 thoroughly to understand the toxicological risks, (if any) and precautions for safe use (if any).
Skin corrosion/irritation	
Skin sensitization	
Skin sensitization	Based on available data the classification criteria are not met.
Eye contact	May cause temporary eye irritation.
12. Ecological Information	
Ecotoxicity	Please read Section 2 completely. If any environmental warnings such as; H411 or H412 are listed in Section 2, please use appropriate procedures when disposing of product and container. Do not put materials into waterways or sewers.
Toxicity	Please read Section 2 completely. If any environmental warnings such as; H411 or H412 are listed in Section 2, please use appropriate procedures when disposing of product and container. Do not put materials into waterways or sewers.
Persistence and degradability	
Persistence and degradability	No data available.
Biodegradation	Not inherently biodegradable.
Bioaccumulative potential	
Partition coefficient	No information available.
Mobility in soil	
Mobility	Semi-mobile.
Other adverse effects	
Other adverse effects	None known.
13. Disposal considerations	

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General information	Dispose of waste product or used containers in accordance with local regulations When handling waste, the safety precautions applying to handling of the product should be considered.
14. Transport information	
General	The product is not covered by international regulations on the transport of dangerous goods (IMDG, IATA, DOT).
UN Number	
Not applicable.	
UN proper shipping name	
Not applicable.	
Transport hazard class(es)	
No transport warning sign re	equired.
Packing group	
Not applicable.	
Environmental hazards	
	any environmental hazards associated with this product. If H411/H412 warnings are shown then labeling requirements for larger volumes.
Special precautions for user Not applicable. Transport in bulk according Annex II of MARPOL 73/78	labeling requirements for larger volumes.
Special precautions for user Not applicable. Transport in bulk according Annex II of MARPOL 73/78 and the IBC Code 15. Regulatory information	labeling requirements for larger volumes.
Special precautions for user Not applicable. Transport in bulk according Annex II of MARPOL 73/78 and the IBC Code 15. Regulatory information US State Regulations	Iabeling requirements for larger volumes. to Not applicable. arcinogens and Reproductive Toxins listed or exempt. how" List
Special precautions for user Not applicable. Transport in bulk according Annex II of MARPOL 73/78 and the IBC Code 15. Regulatory information US State Regulations California Proposition 65 Ca None of the ingredients are Massachusetts "Right To Ku Present. Hydrated Aluminium Silicate 1-5% 2-aminoethanol <1% Rhode Island "Right To Ku	to Not applicable. arcinogens and Reproductive Toxins listed or exempt. now" List
Special precautions for user Not applicable. Transport in bulk according Annex II of MARPOL 73/78 and the IBC Code 15. Regulatory information US State Regulations California Proposition 65 Ca None of the ingredients are Massachusetts "Right To Ku Present. Hydrated Aluminium Silicated 1-5% 2-aminoethanol <1%	Iabeling requirements for larger volumes. to Not applicable. arcinogens and Reproductive Toxins listed or exempt. now" List a

Minnesota "Right To Know" List

Present. Hydrated Aluminium Silicate 1-5% 2-aminoethanol <1%

New Jersey "Right To Know" List Present.

Hydrated Aluminium Silicate 1-5%

2-aminoethanol <1%

Pennsylvania "Right To Know" List

Present.

Hydrated Aluminium Silicate 1-5% 2-aminoethanol <1%

Inventories

Canada - DSL/NDSL All the ingredients are listed or exempt.

US - TSCA

All the ingredients are listed or exempt.

US - TSCA 12(b) Export Notification

All the ingredients are listed or exempt.

16. Other information	
General information	The following are the top 5 materials by weight listed for New Jersey (if applicable):- Water 7732-18-5, Non Lead Frit65997-18-4, Hydrated Aluminum Silicate1332-58-7, Zirconium Aluminum Silicate10101-52-7, Various Pigments
Revision date	7/6/2017
Revision	22
Supersedes date	7/6/2017
SDS No.	6005

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty, guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.

SAFETY DATA SHEET TPL-44 Peridot

1. Identification	
Product identifier	
Product name	TPL-44 Peridot
Recommended use of the ch	nemical and restrictions on use
Application	ceramic glaze
Details of the supplier of the	safety data sheet
Supplier	
	American Art Clay Co Inc
	6060 Guion Road Indianapolis,
	IN 46254-1222
	USA
	Toll Free: 1-800-925-5195 ext. 1303
	Local: 1-317-243-0066 ext. 1303
Emergency telephone numb	er
Emergency telephone	1 317 243 0066 ext. 1303 Mon-Fri, 0900-1700 EST
2. Hazard(s) identification	
Classification of the substan	ce or mixture
Physical hazards	Not Classified
Health hazards	Not Classified
Environmental hazards	Not Classified
Label elements	
Hazard statements	NC Not Classified
Other hazards	
none present	
3. Composition/information of	on ingredients
Mixtures	
Composition comments	Only ingredients listed above are notifiable for this product. If none are shown then all ingredients are exempt.
4. First-aid measures	
Description of first aid meas	ures
General information	-
Ingestion	Do not induce vomiting. Rinse mouth thoroughly with water. Give a few small glasses of water or milk to drink. Get medical attention if any discomfort continues.
Skin Contact	Wash skin thoroughly with soap and water.
Eye contact	Rinse with water.
Most important symptoms a	nd effects, both acute and delayed

Usage precautions <u>Conditions for safe storage, in</u> Storage precautions <u>Specific end uses(s)</u> Specific end use(s)	hygiene procedures should be implemented. Wash hands and any other contaminated areas of the body with soap and water before leaving the work site.
<u>Conditions for safe storage, in</u> Storage precautions	hygiene procedures should be implemented. Wash hands and any other contaminated areas of the body with soap and water before leaving the work site.
Conditions for safe storage, in	hygiene procedures should be implemented. Wash hands and any other contaminated areas of the body with soap and water before leaving the work site.
5.1	hygiene procedures should be implemented. Wash hands and any other contaminated areas of the body with soap and water before leaving the work site.
Usage precautions	hygiene procedures should be implemented. Wash hands and any other contaminated areas
Usage precautions	
Lleage precautions	INCAV JANCI NEIVIE USE, DU HULEAL, UHIN ULSHUKE WHEN USINU INIS DIQUUCL GOOD DEISONAL
Precautions for safe handling	Read label before use. Do not eat, drink or smoke when using this product. Good personal
7. Handling and storage	
Reference to other sections	For waste disposal, see Section 13. For personal protection, see Section 8.
Methods for cleaning up	Collect spillage for reclamation or absorb in vermiculite, dry sand or similar material
Methods and material for cont	ainment and cleaning up
Environmental precautions Environmental precautions	Please read Section 2 completely. If any environmental warnings such as; H411 or H412 are listed in Section 2, please use appropriate procedures when disposing of product and container. Do not put materials into waterways or sewers.
Personal precautions	For personal protection, see Section 8.
	ve equipment and emergency procedures
6. Accidental release measure	
for firefighters	
Special protective equipment	Use protective equipment appropriate for surrounding materials.
· Advice for firefighters	
Specific hazards	The product is not believed to present a hazard due to its physical nature.
Special hazards arising from t	
Suitable extinguishing media	Use fire-extinguishing media suitable for the surrounding fire.
Extinguishing media	
5. Fire-fighting measures	
Notes for the doctor	al attention and special treatment needed Treat symptomatically.
Indication of immediate modia	materials from contacting the eyes is prudent. If contact does occur, flush with clean water, do not rub.
Eye contact	Read Section 2 for any specific precautions associated with the use of this product. In general most ceramic and special products contain materials that maybe abrasive to eyes. Keeping
Skin contact	Read Section 2 for any specific precautions associated with the use of this product. In general most ceramic glazes, clays and special products will tend to have a drying effect on the skin and may cause some sensitivity to users with sensitive skin.
Ingestion	Read Section 2 for any specific precautions associated with the use of this product. Products with specific warnings about ingestion will give guidance there.
Inhalation	Read Section 2 for any specific precautions associated with this product. In general, breathing any type of dust / mist can and may aggravate irritation of the throat and lungs.
Inholotion	

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8. Exposure	Controls/personal	protection
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Ingredient comments	Only ingredients listed n Section 3 are notifiable for this product. If none are shown then all ingredients are exempt.
Exposure controls	
Appropriate engineering controls	No specific ventilations requirements unless the "FAN" pictogram is shown above or specified in Section 2.
Eye/face protection	No specific eye protection required unless the "EYE PROTECTION" pictogram is shown above or specified in Section 2.
Hand protection	No specific hand protection required unless the "HAND PROTECTION" pictogram is shown above or specified in Section 2.
Hygiene measures	Using good personal hygiene practices is always appropriate. Keeping a clean work space, cleaning up properly when done, and not eating, drinking or smoking when using this product.
Respiratory protection	No specific respiratory protection required unless the "RESPIRATOR" pictogram is shown above or specified in Section 2. Using the appropriate certified protection for the operation is important if required.

9. Physical and Chemical Properties

Information on basic physical	and chemical properties
Appearance	Colored liquid.
Color	Various colors.
Odor	Almost odorless.
Odor threshold	No information available.
рН	6-8
Melting point	No information available.
Initial boiling point and range	No information available.
Flash point	No information available.
Evaporation rate	No information available.
Flammability (solid, gas)	No information available.
Upper/lower flammability or explosive limits	No information available.
Vapor pressure	No information available.
Relative density	Greater than 1.0
Solubility(ies)	Not applicable.
Partition coefficient	No information available.
Auto-ignition temperature	Not applicable.
Decomposition Temperature	No information available.
Viscosity	No information available.
Explosive properties	none
Oxidizing properties	none

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Other information	Not applicable.
10. Stability and reactivity	
Reactivity	There are no known reactivity hazards associated with this product.
Stability	No particular stability concerns.
Possibility of hazardous reactions	None known.
Conditions to avoid	None known.
Materials to avoid	None known.
Hazardous decomposition products	None known.
11. Toxicological information	
Information on toxicological ef	fects
Toxicological effects	Please read Section 2 thoroughly to understand the toxicological risks, (if any) and precautions for safe use (if any).
Skin corrosion/irritation	
Skin sensitization	
Skin sensitization	Based on available data the classification criteria are not met.
Eye contact	May cause temporary eye irritation.
12. Ecological Information	
Ecotoxicity	Please read Section 2 completely. If any environmental warnings such as; H411 or H412 are listed in Section 2, please use appropriate procedures when disposing of product and container. Do not put materials into waterways or sewers.
Toxicity	Please read Section 2 completely. If any environmental warnings such as; H411 or H412 are listed in Section 2, please use appropriate procedures when disposing of product and container. Do not put materials into waterways or sewers.
Persistence and degradability	
Persistence and degradability	No data available.
Biodegradation	Not inherently biodegradable.
Bioaccumulative potential	
Partition coefficient	No information available.
Mobility in soil	
Mobility	Semi-mobile.
Other adverse effects	
Other adverse effects Other adverse effects	None known.

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	Dispose of waste product or used containers in accordance with local regulations When handling waste, the safety precautions applying to handling of the product should be considered.
14. Transport information	
General	The product is not covered by international regulations on the transport of dangerous goods (IMDG, IATA, DOT).
UN Number	
Not applicable.	
UN proper shipping name	
Not applicable.	
Transport hazard class(es	
No transport warning sign	required.
Packing group	
Not applicable.	
Environmental hazards	
Special precautions for us Not applicable.	i g to Not applicable.
	0
and the IBC Code	
and the IBC Code 15. Regulatory information	
and the IBC Code 15. Regulatory information US State Regulations California Proposition 65	Carcinogens and Reproductive Toxins
and the IBC Code 15. Regulatory information US State Regulations California Proposition 65 None of the ingredients a Massachusetts "Right To	n Carcinogens and Reproductive Toxins re listed or exempt.
and the IBC Code 15. Regulatory information US State Regulations California Proposition 65 None of the ingredients a Massachusetts "Right To Present. Hydrated Aluminium Silic	Carcinogens and Reproductive Toxins re listed or exempt. Know" List
and the IBC Code 15. Regulatory information US State Regulations California Proposition 65 None of the ingredients a Massachusetts "Right To Present. Hydrated Aluminium Silic 1-5% 2-aminoethanol	Carcinogens and Reproductive Toxins re listed or exempt. Know" List
and the IBC Code 15. Regulatory information US State Regulations California Proposition 65 None of the ingredients a Massachusetts "Right To Present. Hydrated Aluminium Silic 1-5% 2-aminoethanol <1% Rhode Island "Right To K	Carcinogens and Reproductive Toxins re listed or exempt. Know" List ate
and the IBC Code 15. Regulatory information US State Regulations California Proposition 65 None of the ingredients a Massachusetts "Right To Present. Hydrated Aluminium Silic 1-5% 2-aminoethanol <1% Rhode Island "Right To K Present. Hydrated Aluminium Silic	Carcinogens and Reproductive Toxins re listed or exempt. Know" List ate
Annex II of MARPOL 73/7 and the IBC Code 15. Regulatory information US State Regulations California Proposition 65 None of the ingredients a Massachusetts "Right To Present. Hydrated Aluminium Silic 1-5% 2-aminoethanol <1% Rhode Island "Right To K Present. Hydrated Aluminium Silic 1-5% 2-aminoethanol <1%	Carcinogens and Reproductive Toxins re listed or exempt. Know" List ate

Minnesota "Right To Know" List

Hydrated Aluminium Silicate 1-5% 2-aminoethanol <1%

New Jersey "Right To Know" List Present.

Hydrated Aluminium Silicate 1-5%

2-aminoethanol <1%

Pennsylvania "Right To Know" List

Present.

Present

Hydrated Aluminium Silicate 1-5% 2-aminoethanol <1%

Inventories

Canada - DSL/NDSL All the ingredients are listed or exempt.

US - TSCA

All the ingredients are listed or exempt.

US - TSCA 12(b) Export Notification

All the ingredients are listed or exempt.

16. Other information	
General information	The following are the top 5 materials by weight listed for New Jersey (if applicable):- Water 7732-18-5, Non Lead Frit65997-18-4, Hydrated Aluminum Silicate1332-58-7, Zirconium Aluminum Silicate10101-52-7, Various Pigments
Revision date	7/6/2017
Revision	24
Supersedes date	7/6/2017
SDS No.	6007

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty, guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.

SAFETY DATA SHEET TPL-55 Tanzanite

1. Identification	
Product identifier	
Product name	TPL-55 Tanzanite
Recommended use of the che	mical and restrictions on use
Application	ceramic glaze
Details of the supplier of the sa	afety data sheet
Supplier	
	American Art Clay Co Inc 6060 Guion Road
	Indianapolis,
	IN 46254-1222
	Toll Free: 1-800-925-5195 ext. 1303 Local: 1-317-243-0066 ext. 1303
Emergency telephone number	
Emergency telephone	1 317 243 0066 ext. 1303 Mon-Fri, 0900-1700 EST
2. Hazard(s) identification	
Classification of the substance	e or mixture
Physical hazards	Not Classified
Health hazards	Not Classified
Environmental hazards	Not Classified
Label elements	
Hazard statements	NC Not Classified
Other hazards	
none present	
3. Composition/information on	ingredients
Mixtures	
Composition comments	Only ingredients listed above are notifiable for this product. If none are shown then all ingredients are exempt.
4. First-aid measures	
Description of first aid measure	
General information	
Ingestion	Do not induce vomiting. Rinse mouth thoroughly with water. Give a few small glasses of water or milk to drink. Get medical attention if any discomfort continues.
Skin Contact	Wash skin thoroughly with soap and water.
Eye contact	Rinse with water.
Most important symptoms and	effects, both acute and delayed

Inhalation Read Section 2 for any specific precautions associated with this product. In general, breathing any type of dust / mist can and may aggravate irritation of the throat and lungs. Ingestion Read Section 2 for any specific precautions associated with the use of this product. Products with specific warnings about ingestion will give guidance there. Skin contact Read Section 2 for any specific precautions associated with the use of this product. In general most ceramic glazes, clays and special products will tend to have a drying effect on the skin and may cause some sensitivity to users with sensitive skin. Eye contact Read Section 2 for any specific precautions associated with the use of this product. In general most ceramic and special products contain materials that maybe abrasive to eyes. Keeping materials from contacting the eyes is prudent. If contact does occur, flush with clean water, do not rub. Indication of immediate medical attention and special treatment needed Notes for the doctor Treat symptomatically. 5. Fire-fighting measures Extinguishing media Suitable extinguishing media Use fire-extinguishing media suitable for the surrounding fire. Special hazards arising from the substance or mixture Specific hazards The product is not believed to present a hazard due to its physical nature. Advice for firefighters Special protective equipment Use protective equipment appropriate for surrounding materials. for firefighters 6. Accidental release measures Personal precautions, protective equipment and emergency procedures Personal precautions For personal protection, see Section 8. **Environmental precautions Environmental precautions** Please read Section 2 completely. If any environmental warnings such as; H411 or H412 are listed in Section 2, please use appropriate procedures when disposing of product and container. Do not put materials into waterways or sewers. Methods and material for containment and cleaning up Methods for cleaning up Collect spillage for reclamation or absorb in vermiculite, dry sand or similar material Reference to other sections For waste disposal, see Section 13. For personal protection, see Section 8. 7. Handling and storage Precautions for safe handling Usage precautions Read label before use. Do not eat, drink or smoke when using this product. Good personal hygiene procedures should be implemented. Wash hands and any other contaminated areas of the body with soap and water before leaving the work site. Conditions for safe storage, including any incompatibilities Storage precautions Store in tightly-closed, original container in a dry and cool place. Specific end uses(s) Specific end use(s) The identified uses for this product are detailed in Section 1.

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8. Exposure Controls/persona	al protection
Control parameters	
Occupational exposure limits	
Tin Oxide	
Long-term exposure limit (8-h as Sn	our TWA): ACGIH 2 mg/m³
ACGIH = American Conference of Governmental Industrial Hygienists.	
Ingredient comments	Only ingredients listed n Section 3 are notifiable for this product. If none are shown then all ingredients are exempt.
Exposure controls	
Appropriate engineering controls	No specific ventilations requirements unless the "FAN" pictogram is shown above or specified in Section 2.
Eye/face protection	No specific eye protection required unless the "EYE PROTECTION" pictogram is shown above or specified in Section 2.
Hand protection	No specific hand protection required unless the "HAND PROTECTION" pictogram is shown above or specified in Section 2.
Hygiene measures	Using good personal hygiene practices is always appropriate. Keeping a clean work space, cleaning up properly when done, and not eating, drinking or smoking when using this product.
Respiratory protection	No specific respiratory protection required unless the "RESPIRATOR" pictogram is shown above or specified in Section 2. Using the appropriate certified protection for the operation is important if required.
9. Physical and Chemical Pro	perties

Information on basic physical and chemical properties

Information on basic physical	and chemical properties
Appearance	Colored liquid.
Color	Various colors.
Odor	Almost odorless.
Odor threshold	No information available.
рН	6-8
Melting point	No information available.
Initial boiling point and range	No information available.
Flash point	No information available.
Evaporation rate	No information available.
Flammability (solid, gas)	No information available.
Upper/lower flammability or explosive limits	No information available.
Vapor pressure	No information available.
Relative density	Greater than 1.0
Solubility(ies)	Not applicable.
Partition coefficient	No information available.
Auto-ignition temperature	Not applicable.

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ViscosityNo information available.Explosive propertiesnoneOxidizing propertiesnoneOther informationNot applicable.I.O. Stability and reactivityThere are no known reactivity hazards associated with this product.ReactivityNo particular stability concerns.
Oxidizing properties none Other information Not applicable. 10. Stability and reactivity There are no known reactivity hazards associated with this product.
Other information Not applicable. 10. Stability and reactivity There are no known reactivity hazards associated with this product.
10. Stability and reactivity Reactivity There are no known reactivity hazards associated with this product.
Reactivity There are no known reactivity hazards associated with this product.
Stability No particular stability concerns.
Possibility of hazardous None known. reactions
Conditions to avoid None known.
Materials to avoid None known.
Hazardous decomposition None known. products
11. Toxicological information
Information on toxicological effects
Toxicological effectsPlease read Section 2 thoroughly to understand the toxicological risks, (if any) and precautions for safe use (if any).
Skin corrosion/irritation
Skin sensitization
Skin sensitization Based on available data the classification criteria are not met.
Eye contact May cause temporary eye irritation.
12. Ecological Information
Ecotoxicity Please read Section 2 completely. If any environmental warnings such as; H411 or H412 are listed in Section 2, please use appropriate procedures when disposing of product and container. Do not put materials into waterways or sewers.
ToxicityPlease read Section 2 completely. If any environmental warnings such as; H411 or H412 are listed in Section 2, please use appropriate procedures when disposing of product and container. Do not put materials into waterways or sewers.
Persistence and degradability
Persistence and degradability No data available.
Biodegradation Not inherently biodegradable.
Bioaccumulative potential
Partition coefficient No information available.
Mobility in soil

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Mobility	Semi-mobile.
Other adverse effects	
Other adverse effects	None known.
13. Disposal considerations	
Waste treatment methods	
General information	Dispose of waste product or used containers in accordance with local regulations When handling waste, the safety precautions applying to handling of the product should be considered.
14. Transport information	
General	The product is not covered by international regulations on the transport of dangerous goods (IMDG, IATA, DOT).
UN Number	
Not applicable.	
UN proper shipping name	
Not applicable.	
Transport hazard class(es)	
No transport warning sign re	quired.
Packing group	
Not applicable.	
Environmental hazards	
Environmentally Hazardous Please refer to Section 2 for please verify packaging and Special precautions for user	any environmental hazards associated with this product. If H411/H412 warnings are shown then labeling requirements for larger volumes.
Not applicable.	
Transport in bulk according t Annex II of MARPOL 73/78 and the IBC Code	to Not applicable.
15. Regulatory information	
None of the ingredients are	
Massachusetts "Right To Kr Present.	IOW" LIST
Hydrated Aluminium Silicate	2
<i>2-aminoethanol</i> <1%	

Rhode Island "Right To Know" List

Present.

Hydrated Aluminium Silicate 1-5% 2-aminoethanol <1%

Minnesota "Right To Know" List Present.

Hydrated Aluminium Silicate 1-5%

2-aminoethanol <1%

New Jersey "Right To Know" List

Present. *Tin Oxide*

<1%

Hydrated Aluminium Silicate 1-5%

Pennsylvania "Right To Know" List Present.

Hydrated Aluminium Silicate 1-5%

2-aminoethanol <1%

Inventories

Canada - DSL/NDSL

All the ingredients are listed or exempt.

US - TSCA

All the ingredients are listed or exempt.

US - TSCA 12(b) Export Notification

All the ingredients are listed or exempt.

16. Other information	
General information	The following are the top 5 materials by weight listed for New Jersey (if applicable):- Water 7732-18-5, Non Lead Frit65997-18-4, Hydrated Aluminum Silicate1332-58-7, Zirconium Aluminum Silicate10101-52-7, Various Pigments
Revision date	7/6/2017
Revision	26
Supersedes date	7/6/2017
SDS No.	6009

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty, guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.

SAFETY DATA SHEET TPL-59 Ruby

1. Identification	
Product identifier	
Product name	TPL-59 Ruby
Recommended use of the che	mical and restrictions on use
Application	ceramic glaze
Details of the supplier of the s	afety data sheet
Supplier	American Art Clay Co Inc
	6060 Guion Road Indianapolis.
	IN 46254-1222
	USA
	Toll Free: 1-800-925-5195 ext. 1303 Local: 1-317-243-0066 ext. 1303
Emergency telephone number	ſ
Emergency telephone	1 317 243 0066 ext. 1303 Mon-Fri, 0900-1700 EST
2. Hazard(s) identification	
Classification of the substance	e or mixture
Physical hazards	Not Classified
Health hazards	Not Classified
Environmental hazards	Not Classified
Label elements	
Hazard statements	NC Not Classified
Other hazards	
none present	
3. Composition/information on	ingredients
Mixtures	
Composition comments	Only ingredients listed above are notifiable for this product. If none are shown then all ingredients are exempt.
4. First-aid measures	
Description of first aid measur	es
General information	-
Ingestion	Do not induce vomiting. Rinse mouth thoroughly with water. Give a few small glasses of water or milk to drink. Get medical attention if any discomfort continues.
Skin Contact	Wash skin thoroughly with soap and water.
Eye contact	Rinse with water.
Most important symptoms and	l effects, both acute and delayed

Inhalation	Read Section 2 for any specific precautions associated with this product. In general, breathing any type of dust / mist can and may aggravate irritation of the throat and lungs.
Ingestion	Read Section 2 for any specific precautions associated with the use of this product. Products with specific warnings about ingestion will give guidance there.
Skin contact	Read Section 2 for any specific precautions associated with the use of this product. In general most ceramic glazes, clays and special products will tend to have a drying effect on the skin and may cause some sensitivity to users with sensitive skin.
Eye contact	Read Section 2 for any specific precautions associated with the use of this product. In general most ceramic and special products contain materials that maybe abrasive to eyes. Keeping materials from contacting the eyes is prudent. If contact does occur, flush with clean water, do not rub.
Indication of immediate medic	al attention and special treatment needed
Notes for the doctor	Treat symptomatically.
5. Fire-fighting measures	
Extinguishing media	
Suitable extinguishing media	Use fire-extinguishing media suitable for the surrounding fire.
Special hazards arising from the	he substance or mixture
Specific hazards	The product is not believed to present a hazard due to its physical nature.
Advice for firefighters	
Special protective equipment for firefighters	Use protective equipment appropriate for surrounding materials.
6. Accidental release measure	ls
Personal precautions, protectiv	ve equipment and emergency procedures
Personal precautions	For personal protection, see Section 8.
Environmental precautions	
Environmental precautions	Please read Section 2 completely. If any environmental warnings such as; H411 or H412 are
	listed in Section 2, please use appropriate procedures when disposing of product and container. Do not put materials into waterways or sewers.
Methods and material for cont	listed in Section 2, please use appropriate procedures when disposing of product and container. Do not put materials into waterways or sewers.
	listed in Section 2, please use appropriate procedures when disposing of product and container. Do not put materials into waterways or sewers.
Methods and material for cont	listed in Section 2, please use appropriate procedures when disposing of product and container. Do not put materials into waterways or sewers. ainment and cleaning up
Methods and material for cont Methods for cleaning up	listed in Section 2, please use appropriate procedures when disposing of product and container. Do not put materials into waterways or sewers. ainment and cleaning up Collect spillage for reclamation or absorb in vermiculite, dry sand or similar material
Methods and material for contained by Methods for cleaning up Reference to other sections	listed in Section 2, please use appropriate procedures when disposing of product and container. Do not put materials into waterways or sewers. ainment and cleaning up Collect spillage for reclamation or absorb in vermiculite, dry sand or similar material
Methods and material for conta Methods for cleaning up Reference to other sections 7. Handling and storage	listed in Section 2, please use appropriate procedures when disposing of product and container. Do not put materials into waterways or sewers. ainment and cleaning up Collect spillage for reclamation or absorb in vermiculite, dry sand or similar material
Methods and material for contained by Methods for cleaning up Reference to other sections 7. Handling and storage Precautions for safe handling	listed in Section 2, please use appropriate procedures when disposing of product and container. Do not put materials into waterways or sewers. ainment and cleaning up Collect spillage for reclamation or absorb in vermiculite, dry sand or similar material For waste disposal, see Section 13. For personal protection, see Section 8. Read label before use. Do not eat, drink or smoke when using this product. Good personal hygiene procedures should be implemented. Wash hands and any other contaminated areas of the body with soap and water before leaving the work site.
Methods and material for conta Methods for cleaning up Reference to other sections 7. Handling and storage Precautions for safe handling Usage precautions	listed in Section 2, please use appropriate procedures when disposing of product and container. Do not put materials into waterways or sewers. ainment and cleaning up Collect spillage for reclamation or absorb in vermiculite, dry sand or similar material For waste disposal, see Section 13. For personal protection, see Section 8. Read label before use. Do not eat, drink or smoke when using this product. Good personal hygiene procedures should be implemented. Wash hands and any other contaminated areas of the body with soap and water before leaving the work site.
Methods and material for conta Methods for cleaning up Reference to other sections 7. Handling and storage Precautions for safe handling Usage precautions	listed in Section 2, please use appropriate procedures when disposing of product and container. Do not put materials into waterways or sewers. ainment and cleaning up Collect spillage for reclamation or absorb in vermiculite, dry sand or similar material For waste disposal, see Section 13. For personal protection, see Section 8. Read label before use. Do not eat, drink or smoke when using this product. Good personal hygiene procedures should be implemented. Wash hands and any other contaminated areas of the body with soap and water before leaving the work site. cluding any incompatibilities
Methods and material for contaMethods for cleaning upReference to other sections7. Handling and storagePrecautions for safe handlingUsage precautionsConditions for safe storage, in Storage precautions	listed in Section 2, please use appropriate procedures when disposing of product and container. Do not put materials into waterways or sewers. ainment and cleaning up Collect spillage for reclamation or absorb in vermiculite, dry sand or similar material For waste disposal, see Section 13. For personal protection, see Section 8. Read label before use. Do not eat, drink or smoke when using this product. Good personal hygiene procedures should be implemented. Wash hands and any other contaminated areas of the body with soap and water before leaving the work site. cluding any incompatibilities

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Ingredient comments	Only ingredients listed n Section 3 are notifiable for this product. If none are shown then all ingredients are exempt.
Exposure controls	
Appropriate engineering controls	No specific ventilations requirements unless the "FAN" pictogram is shown above or specified in Section 2.
Eye/face protection	No specific eye protection required unless the "EYE PROTECTION" pictogram is shown above or specified in Section 2.
Hand protection	No specific hand protection required unless the "HAND PROTECTION" pictogram is shown above or specified in Section 2.
Hygiene measures	Using good personal hygiene practices is always appropriate. Keeping a clean work space, cleaning up properly when done, and not eating, drinking or smoking when using this product.
Respiratory protection	No specific respiratory protection required unless the "RESPIRATOR" pictogram is shown above or specified in Section 2. Using the appropriate certified protection for the operation is important if required.

9. Physical and Chemical Properties

Information on basic physical	and chemical properties
Appearance	Colored liquid.
Color	Various colors.
Odor	Almost odorless.
Odor threshold	No information available.
рН	6-8
Melting point	No information available.
Initial boiling point and range	No information available.
Flash point	No information available.
Evaporation rate	No information available.
Flammability (solid, gas)	No information available.
Upper/lower flammability or explosive limits	No information available.
Vapor pressure	No information available.
Relative density	Greater than 1.0
Solubility(ies)	Not applicable.
Partition coefficient	No information available.
Auto-ignition temperature	Not applicable.
Decomposition Temperature	No information available.
Viscosity	No information available.
Explosive properties	none
Oxidizing properties	none

Other information	Not applicable.
10. Stability and reactivity	
Reactivity	There are no known reactivity hazards associated with this product.
Stability	No particular stability concerns.
Possibility of hazardous reactions	None known.
Conditions to avoid	None known.
Materials to avoid	None known.
Hazardous decomposition products	None known.
11. Toxicological information	
Information on toxicological ef	fects
Toxicological effects	Please read Section 2 thoroughly to understand the toxicological risks, (if any) and precautions for safe use (if any).
Skin corrosion/irritation	
Skin sensitization	
Skin sensitization	Based on available data the classification criteria are not met.
Eye contact	May cause temporary eye irritation.
12. Ecological Information	
Ecotoxicity	Please read Section 2 completely. If any environmental warnings such as; H411 or H412 are listed in Section 2, please use appropriate procedures when disposing of product and container. Do not put materials into waterways or sewers.
Ecotoxicity	listed in Section 2, please use appropriate procedures when disposing of product and
	listed in Section 2, please use appropriate procedures when disposing of product and container. Do not put materials into waterways or sewers. Please read Section 2 completely. If any environmental warnings such as; H411 or H412 are listed in Section 2, please use appropriate procedures when disposing of product and
Toxicity	listed in Section 2, please use appropriate procedures when disposing of product and container. Do not put materials into waterways or sewers. Please read Section 2 completely. If any environmental warnings such as; H411 or H412 are listed in Section 2, please use appropriate procedures when disposing of product and
Toxicity Persistence and degradability	listed in Section 2, please use appropriate procedures when disposing of product and container. Do not put materials into waterways or sewers. Please read Section 2 completely. If any environmental warnings such as; H411 or H412 are listed in Section 2, please use appropriate procedures when disposing of product and container. Do not put materials into waterways or sewers.
Toxicity Persistence and degradability Persistence and degradability	listed in Section 2, please use appropriate procedures when disposing of product and container. Do not put materials into waterways or sewers. Please read Section 2 completely. If any environmental warnings such as; H411 or H412 are listed in Section 2, please use appropriate procedures when disposing of product and container. Do not put materials into waterways or sewers. No data available.
Toxicity Persistence and degradability Persistence and degradability Biodegradation	listed in Section 2, please use appropriate procedures when disposing of product and container. Do not put materials into waterways or sewers. Please read Section 2 completely. If any environmental warnings such as; H411 or H412 are listed in Section 2, please use appropriate procedures when disposing of product and container. Do not put materials into waterways or sewers. No data available.
Toxicity Persistence and degradability Persistence and degradability Biodegradation Bioaccumulative potential	listed in Section 2, please use appropriate procedures when disposing of product and container. Do not put materials into waterways or sewers. Please read Section 2 completely. If any environmental warnings such as; H411 or H412 are listed in Section 2, please use appropriate procedures when disposing of product and container. Do not put materials into waterways or sewers. No data available. Not inherently biodegradable.
Toxicity Persistence and degradability Persistence and degradability Biodegradation Bioaccumulative potential Partition coefficient	listed in Section 2, please use appropriate procedures when disposing of product and container. Do not put materials into waterways or sewers. Please read Section 2 completely. If any environmental warnings such as; H411 or H412 are listed in Section 2, please use appropriate procedures when disposing of product and container. Do not put materials into waterways or sewers. No data available. Not inherently biodegradable.
Toxicity Persistence and degradability Persistence and degradability Biodegradation Bioaccumulative potential Partition coefficient Mobility in soil	listed in Section 2, please use appropriate procedures when disposing of product and container. Do not put materials into waterways or sewers. Please read Section 2 completely. If any environmental warnings such as; H411 or H412 are listed in Section 2, please use appropriate procedures when disposing of product and container. Do not put materials into waterways or sewers. No data available. Not inherently biodegradable. No information available.
Toxicity Persistence and degradability Persistence and degradability Biodegradation Bioaccumulative potential Partition coefficient Mobility in soil Mobility	listed in Section 2, please use appropriate procedures when disposing of product and container. Do not put materials into waterways or sewers. Please read Section 2 completely. If any environmental warnings such as; H411 or H412 are listed in Section 2, please use appropriate procedures when disposing of product and container. Do not put materials into waterways or sewers. No data available. Not inherently biodegradable. No information available.

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	Dispose of waste product or used containers in accordance with local regulations When handling waste, the safety precautions applying to handling of the product should be considered.
14. Transport information	
General	The product is not covered by international regulations on the transport of dangerous goods (IMDG, IATA, DOT).
UN Number	
Not applicable.	
JN proper shipping name	
Not applicable.	
Transport hazard class(es	
No transport warning sign	required.
Packing group	
Not applicable.	
Environmental hazards	
vot applicable.	
Transport in bulk accordir Annex II of MARPOL 73/7	• • • • • • • • • • • • • • • • • • • •
Transport in bulk accordir Annex II of MARPOL 73/7 and the IBC Code	8
None of the ingredients a Massachusetts "Right To Present. <i>Hydrated Aluminium Silic</i> 1-5%	8 Carcinogens and Reproductive Toxins re listed or exempt. Know" List
Transport in bulk accordin Annex II of MARPOL 73/7 and the IBC Code 15. Regulatory information US State Regulations California Proposition 65 None of the ingredients a Massachusetts "Right To Present. Hydrated Aluminium Silic 1-5% 2-aminoethanol <1%	8 Carcinogens and Reproductive Toxins re listed or exempt. Know" List ate
Transport in bulk accordin Annex II of MARPOL 73/7 and the IBC Code 15. Regulatory information JS State Regulations California Proposition 65 None of the ingredients a Massachusetts "Right To Present. Hydrated Aluminium Silic 1-5% 2-aminoethanol <1% Rhode Island "Right To K Present.	8 Carcinogens and Reproductive Toxins re listed or exempt. Know" List ate
Transport in bulk accordin Annex II of MARPOL 73/7 and the IBC Code 15. Regulatory information JS State Regulations California Proposition 65 None of the ingredients a Massachusetts "Right To Present. Hydrated Aluminium Silic 1-5% 2-aminoethanol <1% Rhode Island "Right To K Present. Hydrated Aluminium Silic	8 Carcinogens and Reproductive Toxins re listed or exempt. Know" List ate
Transport in bulk accordin Annex II of MARPOL 73/7 and the IBC Code 15. Regulatory information US State Regulations California Proposition 65 None of the ingredients a Massachusetts "Right To Present. Hydrated Aluminium Silic	8 Carcinogens and Reproductive Toxins re listed or exempt. Know" List ate

TPL-59 Ruby

Minnesota "Right To Know" List

Present. Hydrated Aluminium Silicate 1-5% 2-aminoethanol <1%

New Jersey "Right To Know" List Present.

Hydrated Aluminium Silicate 1-5%

2-aminoethanol <1%

Pennsylvania "Right To Know" List

Present.

Hydrated Aluminium Silicate 1-5% 2-aminoethanol <1%

Inventories

Canada - DSL/NDSL All the ingredients are listed or exempt.

US - TSCA

All the ingredients are listed or exempt.

US - TSCA 12(b) Export Notification

All the ingredients are listed or exempt.

16. Other information	
General information	The following are the top 5 materials by weight listed for New Jersey (if applicable):- Water 7732-18-5, Non Lead Frit65997-18-4, Hydrated Aluminum Silicate1332-58-7, Zirconium Aluminum Silicate10101-52-7, Various Pigments
Revision date	7/6/2017
Revision	27
Supersedes date	7/6/2017
SDS No.	6010

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty, guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.

SAFETY DATA SHEET TPL-66 Fire Opal

1. Identification	
Product identifier	
Product name	TPL-66 Fire Opal
Recommended use of the chemical and restrictions on use	
Application	ceramic glaze
Details of the supplier of the safety data sheet	
Supplier	
	American Art Clay Co Inc
	6060 Guion Road
	Indianapolis, IN 46254-1222
	USA
	Toll Free: 1-800-925-5195 ext. 1303
	Local: 1-317-243-0066 ext. 1303
Emergency telephone numb	ber
Emergency telephone	1 317 243 0066 ext. 1303 Mon-Fri, 0900-1700 EST
2. Hazard(s) identification	
Classification of the substar	nce or mixture
Physical hazards	Not Classified
Health hazards	Not Classified
Environmental hazards	Not Classified
Label elements	
Hazard statements	NC Not Classified
Other hazards	
none present	
3. Composition/information	on ingredients
Mixtures	
Composition comments	Only ingredients listed above are notifiable for this product. If none are shown then all ingredients are exempt.
4. First-aid measures	
Description of first aid meas	ures
General information	
Ingestion	Do not induce vomiting. Rinse mouth thoroughly with water. Give a few small glasses of water or milk to drink. Get medical attention if any discomfort continues.
Skin Contact	Wash skin thoroughly with soap and water.
Eye contact	Rinse with water.
Most important symptoms a	nd effects, both acute and delayed

Conditions for safe storage, i Storage precautions	Store in tightly-closed, original container in a dry and cool place.
Conditions for safe storage i	
	ncluding any incompatibilities
Usage precautions	Read label before use. Do not eat, drink or smoke when using this product. Good personal hygiene procedures should be implemented. Wash hands and any other contaminated areas of the body with soap and water before leaving the work site.
Precautions for safe handling	-
7. Handling and storage	
Reference to other sections	For waste disposal, see Section 13. For personal protection, see Section 8.
Methods for cleaning up	Collect spillage for reclamation or absorb in vermiculite, dry sand or similar material
Methods and material for con	
Methods and material for cor	container. Do not put materials into waterways or sewers.
Environmental precautions Environmental precautions	Please read Section 2 completely. If any environmental warnings such as; H411 or H412 are listed in Section 2, please use appropriate procedures when disposing of product and
Personal precautions	For personal protection, see Section 8.
Personal precautions, protec	tive equipment and emergency procedures
6. Accidental release measur	res
Special protective equipment for firefighters	Use protective equipment appropriate for surrounding materials.
Advice for firefighters	
Specific hazards	The product is not believed to present a hazard due to its physical nature.
Special hazards arising from	the substance or mixture
Suitable extinguishing media	Use fire-extinguishing media suitable for the surrounding fire.
Extinguishing media	
5. Fire-fighting measures	
Notes for the doctor	Treat symptomatically.
Indication of immediate medi	cal attention and special treatment needed
Eye contact	Read Section 2 for any specific precautions associated with the use of this product. In general most ceramic and special products contain materials that maybe abrasive to eyes. Keeping materials from contacting the eyes is prudent. If contact does occur, flush with clean water, do not rub.
Skin contact	Read Section 2 for any specific precautions associated with the use of this product. In general most ceramic glazes, clays and special products will tend to have a drying effect on the skin and may cause some sensitivity to users with sensitive skin.
Ingestion	Read Section 2 for any specific precautions associated with the use of this product. Products with specific warnings about ingestion will give guidance there.
Inhalation	Read Section 2 for any specific precautions associated with this product. In general, breathing any type of dust / mist can and may aggravate irritation of the throat and lungs.

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8. Exposure Controls/personal protection

Ingredient comments	Only ingredients listed n Section 3 are notifiable for this product. If none are shown then all ingredients are exempt.
Exposure controls	
Appropriate engineering controls	No specific ventilations requirements unless the "FAN" pictogram is shown above or specified in Section 2.
Eye/face protection	No specific eye protection required unless the "EYE PROTECTION" pictogram is shown above or specified in Section 2.
Hand protection	No specific hand protection required unless the "HAND PROTECTION" pictogram is shown above or specified in Section 2.
Hygiene measures	Using good personal hygiene practices is always appropriate. Keeping a clean work space, cleaning up properly when done, and not eating, drinking or smoking when using this product.
Respiratory protection	No specific respiratory protection required unless the "RESPIRATOR" pictogram is shown above or specified in Section 2. Using the appropriate certified protection for the operation is important if required.

9. Physical and Chemical Properties

Information on basic physical	and chemical properties
Appearance	Colored liquid.
Color	Various colors.
Odor	Almost odorless.
Odor threshold	No information available.
рН	6-8
Melting point	No information available.
Initial boiling point and range	No information available.
Flash point	No information available.
Evaporation rate	No information available.
Flammability (solid, gas)	No information available.
Upper/lower flammability or explosive limits	No information available.
Vapor pressure	No information available.
Relative density	Greater than 1.0
Solubility(ies)	Not applicable.
Partition coefficient	No information available.
Auto-ignition temperature	Not applicable.
Decomposition Temperature	No information available.
Viscosity	No information available.
Explosive properties	none
Oxidizing properties	none

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Other information	Not applicable.
10. Stability and reactivity	
Reactivity	There are no known reactivity hazards associated with this product.
Stability	No particular stability concerns.
Possibility of hazardous reactions	None known.
Conditions to avoid	None known.
Materials to avoid	None known.
Hazardous decomposition products	None known.
11. Toxicological information	
Information on toxicological ef	fects
Toxicological effects	Please read Section 2 thoroughly to understand the toxicological risks, (if any) and precautions for safe use (if any).
Skin corrosion/irritation	
Skin sensitization	
Skin sensitization	Based on available data the classification criteria are not met.
Eye contact	May cause temporary eye irritation.
12. Ecological Information	
Ecotoxicity	Please read Section 2 completely. If any environmental warnings such as; H411 or H412 are listed in Section 2, please use appropriate procedures when disposing of product and container. Do not put materials into waterways or sewers.
Toxicity	Please read Section 2 completely. If any environmental warnings such as; H411 or H412 are listed in Section 2, please use appropriate procedures when disposing of product and container. Do not put materials into waterways or sewers.
Persistence and degradability	
Persistence and degradability	No data available.
Biodegradation	Not inherently biodegradable.
Bioaccumulative potential	
Partition coefficient	No information available.
Mobility in soil	
Mobility	Semi-mobile.
Other adverse effects	
Other adverse effects	None known.
13. Disposal considerations	

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General information	Dispose of waste product or used containers in accordance with local regulations When handling waste, the safety precautions applying to handling of the product should be considered.
14. Transport information	
General	The product is not covered by international regulations on the transport of dangerous goods (IMDG, IATA, DOT).
UN Number	
Not applicable.	
UN proper shipping name	
Not applicable.	
Transport hazard class(es	<u>s)</u>
No transport warning sign	required.
Packing group	
Not applicable.	
Environmental hazards	
Not applicable.	
Annex II of MARPOL 73/7	ng to Not applicable. 78
Annex II of MARPOL 73/7 and the IBC Code	78
Annex II of MARPOL 73/7 and the IBC Code 15. Regulatory information	78
Annex II of MARPOL 73/7 and the IBC Code 15. Regulatory information US State Regulations	R n Carcinogens and Reproductive Toxins
Annex II of MARPOL 73/7 and the IBC Code 15. Regulatory information US State Regulations California Proposition 65	n Carcinogens and Reproductive Toxins are listed or exempt.
Annex II of MARPOL 73/7 and the IBC Code 15. Regulatory information US State Regulations California Proposition 65 None of the ingredients a Massachusetts "Right To	n Carcinogens and Reproductive Toxins Ire listed or exempt. Know" List
Annex II of MARPOL 73/7 and the IBC Code 15. Regulatory information US State Regulations California Proposition 65 None of the ingredients a Massachusetts "Right To Present. Hydrated Aluminium Silic	n Carcinogens and Reproductive Toxins Ire listed or exempt. Know" List
Annex II of MARPOL 73/7 and the IBC Code 15. Regulatory information US State Regulations California Proposition 65 None of the ingredients a Massachusetts "Right To Present. Hydrated Aluminium Silic 1-5% 2-aminoethanol	n Carcinogens and Reproductive Toxins Ire listed or exempt. Know" List sate
Annex II of MARPOL 73/7 and the IBC Code 15. Regulatory information US State Regulations California Proposition 65 None of the ingredients a Massachusetts "Right To Present. Hydrated Aluminium Silic 1-5% 2-aminoethanol <1% Rhode Island "Right To K	n Carcinogens and Reproductive Toxins are listed or exempt. Know" List Know" List
Annex II of MARPOL 73/7 and the IBC Code 15. Regulatory information US State Regulations California Proposition 65 None of the ingredients a Massachusetts "Right To Present. Hydrated Aluminium Silic 1-5% 2-aminoethanol <1% Rhode Island "Right To K Present. Hydrated Aluminium Silic	n Carcinogens and Reproductive Toxins are listed or exempt. Know" List Know" List

Minnesota "Right To Know" List

Present. Hydrated Aluminium Silicate 1-5% 2-aminoethanol <1%

New Jersey "Right To Know" List Present.

Hydrated Aluminium Silicate 1-5%

2-aminoethanol <1%

Pennsylvania "Right To Know" List

Present. Hydrated Aluminium Silicate 1-5%

2-aminoethanol <1%

Inventories

Canada - DSL/NDSL All the ingredients are listed or exempt.

US - TSCA

All the ingredients are listed or exempt.

US - TSCA 12(b) Export Notification

All the ingredients are listed or exempt.

16. Other information	
General information	The following are the top 5 materials by weight listed for New Jersey (if applicable):- Water 7732-18-5, Non Lead Frit65997-18-4, Hydrated Aluminum Silicate1332-58-7, Zirconium Aluminum Silicate10101-52-7, Various Pigments
Revision date	7/6/2017
Revision	29
Supersedes date	7/6/2017
SDS No.	6012

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty, guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.

SAFETY DATA SHEET TPL-23 Aquamarine

1. Identification	
Product identifier	
Product name	TPL-23 Aquamarine
Recommended use of the chemical and restrictions on use	
Application	ceramic glaze
Details of the supplier of the safety data sheet	
Supplier	American Art Clay Co Inc 6060 Guion Road Indianapolis, IN 46254-1222 USA Toll Free: 1-800-925-5195 ext. 1303 Local: 1-317-243-0066 ext. 1303
Emergency telephone number	
Emergency telephone	1 317 243 0066 ext. 1303 Mon-Fri, 0900-1700 EST
2. Hazard(s) identification	
Classification of the substance	or mixture
Physical hazards	Not Classified
Health hazards	Not Classified
Environmental hazards	Not Classified
Label elements	
Hazard statements	NC Not Classified
Other hazards	
none present	
3. Composition/information on	ingredients
<u>Mixtures</u> Composition comments	Only ingredients listed above are notifiable for this product. If none are shown then all ingredients are exempt.
4. First-aid measures	
Description of first aid measure	25
General information	-
Ingestion	Do not induce vomiting. Rinse mouth thoroughly with water. Give a few small glasses of water or milk to drink. Get medical attention if any discomfort continues.
Skin Contact	Wash skin thoroughly with soap and water.
Eye contact	Rinse with water.
Most important symptoms and effects, both acute and delayed	

Inhalation Read Section 2 for any specific precautions associated with this product. In general, breathing any type of dust / mist can and may aggravate irritation of the throat and lungs. Ingestion Read Section 2 for any specific precautions associated with the use of this product. Products with specific warnings about ingestion will give guidance there. Skin contact Read Section 2 for any specific precautions associated with the use of this product. In general most ceramic glazes, clays and special products will tend to have a drying effect on the skin and may cause some sensitivity to users with sensitive skin. Eye contact Read Section 2 for any specific precautions associated with the use of this product. In general most ceramic and special products contain materials that maybe abrasive to eyes. Keeping materials from contacting the eyes is prudent. If contact does occur, flush with clean water, do not rub. Indication of immediate medical attention and special treatment needed Notes for the doctor Treat symptomatically. 5. Fire-fighting measures Extinguishing media Suitable extinguishing media Use fire-extinguishing media suitable for the surrounding fire. Special hazards arising from the substance or mixture Specific hazards The product is not believed to present a hazard due to its physical nature. Advice for firefighters Special protective equipment Use protective equipment appropriate for surrounding materials. for firefighters 6. Accidental release measures Personal precautions, protective equipment and emergency procedures Personal precautions For personal protection, see Section 8. **Environmental precautions Environmental precautions** Please read Section 2 completely. If any environmental warnings such as; H411 or H412 are listed in Section 2, please use appropriate procedures when disposing of product and container. Do not put materials into waterways or sewers. Methods and material for containment and cleaning up Methods for cleaning up Collect spillage for reclamation or absorb in vermiculite, dry sand or similar material Reference to other sections For waste disposal, see Section 13. For personal protection, see Section 8. 7. Handling and storage Precautions for safe handling Usage precautions Read label before use. Do not eat, drink or smoke when using this product. Good personal hygiene procedures should be implemented. Wash hands and any other contaminated areas of the body with soap and water before leaving the work site. Conditions for safe storage, including any incompatibilities Storage precautions Store in tightly-closed, original container in a dry and cool place. Specific end uses(s) Specific end use(s) The identified uses for this product are detailed in Section 1.

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8. Exposure Controls/personal protection	
Ingredient comments	Only ingredients listed n Section 3 are notifiable for this product. If none are shown then all ingredients are exempt.
Exposure controls	
Appropriate engineering controls	No specific ventilations requirements unless the "FAN" pictogram is shown above or specified in Section 2.
Eye/face protection	No specific eye protection required unless the "EYE PROTECTION" pictogram is shown above or specified in Section 2.
Hand protection	No specific hand protection required unless the "HAND PROTECTION" pictogram is shown above or specified in Section 2.
Hygiene measures	Using good personal hygiene practices is always appropriate. Keeping a clean work space, cleaning up properly when done, and not eating, drinking or smoking when using this product.
Respiratory protection	No specific respiratory protection required unless the "RESPIRATOR" pictogram is shown above or specified in Section 2. Using the appropriate certified protection for the operation is important if required.

9. Physical and Chemical Properties

AppearanceColored liquid.ColorVarious colors.OdorAlmost odorless.Odor thresholdNo information available.PH6-8Metting pointNo information available.Initial bolling point and rangeNo information available.
OdorAlmost odorless.Odor thresholdNo information available.pH6-8Melting pointNo information available.
Odor thresholdNo information available.pH6-8Melting pointNo information available.
pH6-8Melting pointNo information available.
Melting point No information available.
Initial boiling point and range No information available.
Flash point No information available.
Evaporation rate No information available.
Flammability (solid, gas) No information available.
Upper/lower flammability or No information available. explosive limits
Vapor pressure No information available.
Relative density Greater than 1.0
Solubility(ies) Not applicable.
Partition coefficient No information available.
Auto-ignition temperature Not applicable.
Decomposition Temperature No information available.
Viscosity No information available.
Explosive properties none
Oxidizing properties none

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Other information	Not applicable.
10. Stability and reactivity	
Reactivity	There are no known reactivity hazards associated with this product.
Stability	No particular stability concerns.
Possibility of hazardous reactions	None known.
Conditions to avoid	None known.
Materials to avoid	None known.
Hazardous decomposition products	None known.
11. Toxicological information	
Information on toxicological ef	fects
Toxicological effects	Please read Section 2 thoroughly to understand the toxicological risks, (if any) and precautions for safe use (if any).
Skin corrosion/irritation	
Skin sensitization	
Skin sensitization	Based on available data the classification criteria are not met.
Eye contact	May cause temporary eye irritation.
12. Ecological Information	
Ecotoxicity	Please read Section 2 completely. If any environmental warnings such as; H411 or H412 are listed in Section 2, please use appropriate procedures when disposing of product and container. Do not put materials into waterways or sewers.
Toxicity	Please read Section 2 completely. If any environmental warnings such as; H411 or H412 are listed in Section 2, please use appropriate procedures when disposing of product and container. Do not put materials into waterways or sewers.
Persistence and degradability	
Persistence and degradability	No data available.
Biodegradation	Not inherently biodegradable.
Bioaccumulative potential	
Partition coefficient	No information available.
Mobility in soil	
Mobility	Semi-mobile.
Other adverse effects	
Other adverse effects	None known.

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General information	Dispose of waste product or used containers in accordance with local regulations When handling waste, the safety precautions applying to handling of the product should be considered.
14. Transport information	
General	The product is not covered by international regulations on the transport of dangerous goods (IMDG, IATA, DOT).
UN Number	
Not applicable.	
UN proper shipping name	
Not applicable.	
Transport hazard class(es)	
No transport warning sign re	equired.
Packing group	
Not applicable.	
Environmental hazards	
Please refer to Section 2 for please verify packaging and Special precautions for use Not applicable.	r any environmental hazards associated with this product. If H411/H412 warnings are shown then I labeling requirements for larger volumes.
Transport in bulk according Annex II of MARPOL 73/78 and the IBC Code	
Transport in bulk according Annex II of MARPOL 73/78 and the IBC Code	
Transport in bulk according Annex II of MARPOL 73/78 and the IBC Code 15. Regulatory information	
Transport in bulk according Annex II of MARPOL 73/78 and the IBC Code 15. Regulatory information US State Regulations	arcinogens and Reproductive Toxins
Transport in bulk according Annex II of MARPOL 73/78 and the IBC Code 15. Regulatory information <u>US State Regulations</u> California Proposition 65 C	arcinogens and Reproductive Toxins
Transport in bulk according Annex II of MARPOL 73/78 and the IBC Code 15. Regulatory information US State Regulations California Proposition 65 C None of the ingredients are Massachusetts "Right To K	arcinogens and Reproductive Toxins listed or exempt. /now" List
Transport in bulk according Annex II of MARPOL 73/78 and the IBC Code 15. Regulatory information US State Regulations California Proposition 65 C None of the ingredients are Massachusetts "Right To K Present. Hydrated Aluminium Silicat	arcinogens and Reproductive Toxins listed or exempt. /now" List
Transport in bulk according Annex II of MARPOL 73/78 and the IBC Code 15. Regulatory information US State Regulations California Proposition 65 C None of the ingredients are Massachusetts "Right To K Present. Hydrated Aluminium Silicat 1-5% 2-aminoethanol	arcinogens and Reproductive Toxins e listed or exempt. fnow" List
Transport in bulk according Annex II of MARPOL 73/78 and the IBC Code 15. Regulatory information US State Regulations California Proposition 65 C None of the ingredients are Massachusetts "Right To K Present. Hydrated Aluminium Silicat 1-5% 2-aminoethanol <1% Rhode Island "Right To Kn	arcinogens and Reproductive Toxins e listed or exempt. fnow" List fre
Transport in bulk according Annex II of MARPOL 73/78 and the IBC Code 15. Regulatory information US State Regulations California Proposition 65 C None of the ingredients are Massachusetts "Right To K Present. Hydrated Aluminium Silicat 1-5% 2-aminoethanol <1% Rhode Island "Right To Kn Present. Hydrated Aluminium Silicat	arcinogens and Reproductive Toxins e listed or exempt. fnow" List fre

Minnesota "Right To Know" List

Hydrated Aluminium Silicate 1-5% 2-aminoethanol <1%

New Jersey "Right To Know" List Present.

Hydrated Aluminium Silicate 1-5%

2-aminoethanol <1%

Pennsylvania "Right To Know" List

Present.

Present

Hydrated Aluminium Silicate 1-5% 2-aminoethanol <1%

Inventories

Canada - DSL/NDSL All the ingredients are listed or exempt.

US - TSCA

All the ingredients are listed or exempt.

US - TSCA 12(b) Export Notification

All the ingredients are listed or exempt.

16. Other information	
General information	The following are the top 5 materials by weight listed for New Jersey (if applicable):- Water 7732-18-5, Non Lead Frit65997-18-4, Hydrated Aluminum Silicate1332-58-7, Zirconium Aluminum Silicate10101-52-7, Various Pigments
Revision date	7/6/2017
Revision	21
Supersedes date	7/6/2017
SDS No.	6003

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty, guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.

SAFETY DATA SHEET TPL-27 Zircon

1. Identification	
Product identifier	
Product name	TPL-27 Zircon
Recommended use of the ch	nemical and restrictions on use
Application	ceramic glaze
Details of the supplier of the	safety data sheet
Supplier	American Art Clay Co Inc
	6060 Guion Road
	Indianapolis,
	IN 46254-1222
	USA Toll Free: 1-800-925-5195 ext. 1303
	Local: 1-317-243-0066 ext. 1303
Emergency telephone numb	er
Emergency telephone	1 317 243 0066 ext. 1303 Mon-Fri, 0900-1700 EST
2. Hazard(s) identification	
Classification of the substan	ce or mixture
Physical hazards	Not Classified
Health hazards	Not Classified
Environmental hazards	Not Classified
Label elements	
Hazard statements	NC Not Classified
Other hazards	
none present	
3. Composition/information c	on ingredients
Mixtures	
Composition comments	Only ingredients listed above are notifiable for this product. If none are shown then all ingredients are exempt.
4. First-aid measures	
Description of first aid measu	Jres
General information	
Ingestion	Do not induce vomiting. Rinse mouth thoroughly with water. Give a few small glasses of water or milk to drink. Get medical attention if any discomfort continues.
Skin Contact	Wash skin thoroughly with soap and water.
Eye contact	Rinse with water.
Most important symptoms ar	nd effects, both acute and delayed

<u>Conditions for safe storage, in</u> Storage precautions <u>Specific end uses(s)</u> Specific end use(s)	<u>cluding any incompatibilities</u> Store in tightly-closed, original container in a dry and cool place. The identified uses for this product are detailed in Section 1.
Storage precautions Specific end uses(s)	
_	
Conditions for safe storage, in	cluding any incompatibilities
	of the body with soap and water before leaving the work site.
coago proceduorio	hygiene procedures should be implemented. Wash hands and any other contaminated areas
Precautions for safe handling Usage precautions	Read label before use. Do not eat, drink or smoke when using this product. Good personal
7. Handling and storage	
Reference to other sections	For waste disposal, see Section 13. For personal protection, see Section 8.
Methods for cleaning up	Collect spillage for reclamation or absorb in vermiculite, dry sand or similar material
Methods and material for cont	ainment and cleaning up
Environmental precautions Environmental precautions	Please read Section 2 completely. If any environmental warnings such as; H411 or H412 are listed in Section 2, please use appropriate procedures when disposing of product and container. Do not put materials into waterways or sewers.
Personal precautions	For personal protection, see Section 8.
	ve equipment and emergency procedures
6. Accidental release measure	15
for firefighters	
Special protective equipment	Use protective equipment appropriate for surrounding materials.
Advice for firefighters	
Specific hazards	The product is not believed to present a hazard due to its physical nature.
Special hazards arising from t	
Suitable extinguishing media	Use fire-extinguishing media suitable for the surrounding fire.
Extinguishing media	
5. Fire-fighting measures	
Notes for the doctor	Treat symptomatically.
Indication of immediate medic	al attention and special treatment needed
Eye contact	Read Section 2 for any specific precautions associated with the use of this product. In general most ceramic and special products contain materials that maybe abrasive to eyes. Keeping materials from contacting the eyes is prudent. If contact does occur, flush with clean water, do not rub.
Skin contact	Read Section 2 for any specific precautions associated with the use of this product. In general most ceramic glazes, clays and special products will tend to have a drying effect on the skin and may cause some sensitivity to users with sensitive skin.
Ingestion	Read Section 2 for any specific precautions associated with the use of this product. Products with specific warnings about ingestion will give guidance there.
Inhalation	Read Section 2 for any specific precautions associated with this product. In general, breathing any type of dust / mist can and may aggravate irritation of the throat and lungs.

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8. Exposure Controls/personal protection

Ingredient comments	Only ingredients listed n Section 3 are notifiable for this product. If none are shown then all ingredients are exempt.	
Exposure controls		
Appropriate engineering controls	No specific ventilations requirements unless the "FAN" pictogram is shown above or specified in Section 2.	
Eye/face protection	No specific eye protection required unless the "EYE PROTECTION" pictogram is shown above or specified in Section 2.	
Hand protection	No specific hand protection required unless the "HAND PROTECTION" pictogram is shown above or specified in Section 2.	
Hygiene measures	Using good personal hygiene practices is always appropriate. Keeping a clean work space, cleaning up properly when done, and not eating, drinking or smoking when using this product.	
Respiratory protection	No specific respiratory protection required unless the "RESPIRATOR" pictogram is shown above or specified in Section 2. Using the appropriate certified protection for the operation is important if required.	

9. Physical and Chemical Properties

Information on basic physical	Information on basic physical and chemical properties			
Appearance	Colored liquid.			
Color	Various colors.			
Odor	Almost odorless.			
Odor threshold	No information available.			
рН	6-8			
Melting point	No information available.			
Initial boiling point and range	No information available.			
Flash point	No information available.			
Evaporation rate	No information available.			
Flammability (solid, gas)	No information available.			
Upper/lower flammability or explosive limits	No information available.			
Vapor pressure	No information available.			
Relative density	Greater than 1.0			
Solubility(ies)	Not applicable.			
Partition coefficient	No information available.			
Auto-ignition temperature	Not applicable.			
Decomposition Temperature	No information available.			
Viscosity	No information available.			
Explosive properties	none			
Oxidizing properties	none			

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Other information	Not applicable.					
10. Stability and reactivity						
Reactivity	There are no known reactivity hazards associated with this product.					
Stability	No particular stability concerns.					
Possibility of hazardous reactions	None known.					
Conditions to avoid	None known.					
Materials to avoid	None known.					
Hazardous decomposition products	None known.					
11. Toxicological information						
Information on toxicological ef	fects					
Toxicological effects	Please read Section 2 thoroughly to understand the toxicological risks, (if any) and precautions for safe use (if any).					
Skin corrosion/irritation						
Skin sensitization						
Skin sensitization	Based on available data the classification criteria are not met.					
Eye contact	May cause temporary eye irritation.					
12. Ecological Information						
Ecotoxicity	Please read Section 2 completely. If any environmental warnings such as; H411 or H412 are listed in Section 2, please use appropriate procedures when disposing of product and container. Do not put materials into waterways or sewers.					
Toxicity	Please read Section 2 completely. If any environmental warnings such as; H411 or H412 are listed in Section 2, please use appropriate procedures when disposing of product and container. Do not put materials into waterways or sewers.					
Persistence and degradability						
Persistence and degradability	No data available.					
Biodegradation	Not inherently biodegradable.					
Bioaccumulative potential						
Partition coefficient	No information available.					
Mobility in soil						
Mobility	Semi-mobile.					
Other adverse effects						
Other adverse effects	None known.					
13. Disposal considerations						

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	Dispose of waste product or used containers in accordance with local regulations When handling waste, the safety precautions applying to handling of the product should be considered.				
14. Transport information					
General	The product is not covered by international regulations on the transport of dangerous goods (IMDG, IATA, DOT).				
UN Number					
Not applicable.					
UN proper shipping name					
Not applicable.					
Transport hazard class(es)					
No transport warning sign	required.				
Packing group					
Not applicable.					
Environmental hazards					
Environmentally Hazardou	s Substance				
please verify packaging an	or any environmental hazards associated with this product. If H411/H412 warnings are shown then d labeling requirements for larger volumes.				
Special precautions for use					
Not applicable.	_				
Not applicable. Transport in bulk according	g to Not applicable.				
Not applicable. Transport in bulk according Annex II of MARPOL 73/78	g to Not applicable.				
Not applicable. Transport in bulk according Annex II of MARPOL 73/78 and the IBC Code	g to Not applicable.				
Not applicable. Transport in bulk according Annex II of MARPOL 73/78 and the IBC Code 15. Regulatory information	g to Not applicable.				
Not applicable. Transport in bulk according Annex II of MARPOL 73/78 and the IBC Code 15. Regulatory information US State Regulations California Proposition 65 0	g to Not applicable.				
Not applicable. Transport in bulk according Annex II of MARPOL 73/78 and the IBC Code 15. Regulatory information US State Regulations California Proposition 65 0	g to Not applicable.				
Not applicable. Transport in bulk according Annex II of MARPOL 73/78 and the IBC Code 15. Regulatory information US State Regulations California Proposition 65 C None of the ingredients ar Massachusetts "Right To I	b Not applicable.				
Not applicable. Transport in bulk according Annex II of MARPOL 73/78 and the IBC Code 15. Regulatory information US State Regulations California Proposition 65 C None of the ingredients ar Massachusetts "Right To I	g to Not applicable. Carcinogens and Reproductive Toxins e listed or exempt. Know" List				
Not applicable. Transport in bulk according Annex II of MARPOL 73/78 and the IBC Code 15. Regulatory information US State Regulations California Proposition 65 C None of the ingredients ar Massachusetts "Right To I Present. <i>Hydrated Aluminium Silica</i>	g to Not applicable. Carcinogens and Reproductive Toxins e listed or exempt. Know" List				
Not applicable. Transport in bulk according Annex II of MARPOL 73/78 and the IBC Code 15. Regulatory information <u>US State Regulations</u> California Proposition 65 C None of the ingredients ar Massachusetts "Right To I Present. <i>Hydrated Aluminium Silica</i> 1-5% 2-aminoethanol <1% Rhode Island "Right To Kr	a to Not applicable. Carcinogens and Reproductive Toxins e listed or exempt. Know" List <i>ite</i>				
Not applicable. Transport in bulk according Annex II of MARPOL 73/78 and the IBC Code 15. Regulatory information US State Regulations California Proposition 65 C None of the ingredients ar Massachusetts "Right To I Present. Hydrated Aluminium Silica 1-5% 2-aminoethanol <1% Rhode Island "Right To Kr Present.	The Not applicable. Carcinogens and Reproductive Toxins e listed or exempt. Know" List now" List				
None of the ingredients ar Massachusetts "Right To I Present. <i>Hydrated Aluminium Silica</i> 1-5% 2-aminoethanol <1% Rhode Island "Right To Kr Present. <i>Hydrated Aluminium Silica</i>	The Not applicable. Carcinogens and Reproductive Toxins e listed or exempt. Know" List now" List				

Minnesota "Right To Know" List

Present. Hydrated Aluminium Silicate 1-5% 2-aminoethanol <1%

New Jersey "Right To Know" List Present.

Hydrated Aluminium Silicate 1-5%

2-aminoethanol <1%

Pennsylvania "Right To Know" List

Present.

Hydrated Aluminium Silicate 1-5% 2-aminoethanol <1%

Inventories

Canada - DSL/NDSL All the ingredients are listed or exempt.

US - TSCA

All the ingredients are listed or exempt.

US - TSCA 12(b) Export Notification

All the ingredients are listed or exempt.

16. Other information	
General information	The following are the top 5 materials by weight listed for New Jersey (if applicable):- Water 7732-18-5, Non Lead Frit65997-18-4, Hydrated Aluminum Silicate1332-58-7, Zirconium Aluminum Silicate10101-52-7, Various Pigments
Revision date	7/6/2017
Revision	21
Supersedes date	7/6/2017
SDS No.	6004

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty, guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.

SAFETY DATA SHEET TPL-34 Jasper

1. Identification			
Product identifier			
Product name	TPL-34 Jasper		
Recommended use of the chemical and restrictions on use			
Application	ceramic glaze		
Details of the supplier of the safety data sheet			
Supplier	American Art Clay Co Inc		
	6060 Guion Road		
	Indianapolis,		
	IN 46254-1222 USA		
	Toll Free: 1-800-925-5195 ext. 1303		
	Local: 1-317-243-0066 ext. 1303		
Emergency telephone numbe			
Emergency telephone	1 317 243 0066 ext. 1303 Mon-Fri, 0900-1700 EST		
2. Hazard(s) identification			
Classification of the substance	e or mixture		
Physical hazards	Not Classified		
Health hazards	Not Classified		
Environmental hazards	Not Classified		
Label elements			
Hazard statements	NC Not Classified		
Other hazards			
none present			
3. Composition/information or	n ingredients		
Mixtures			
Composition comments	Only ingredients listed above are notifiable for this product. If none are shown then all ingredients are exempt.		
4. First-aid measures			
Description of first aid measu	res		
General information			
Ingestion	Do not induce vomiting. Rinse mouth thoroughly with water. Give a few small glasses of water or milk to drink. Get medical attention if any discomfort continues.		
Skin Contact	Wash skin thoroughly with soap and water.		
Eye contact	Rinse with water.		
Most important symptoms and effects, both acute and delayed			

Inhalation	Read Section 2 for any specific precautions associated with this product. In general, breathing any type of dust / mist can and may aggravate irritation of the throat and lungs.
Ingestion	Read Section 2 for any specific precautions associated with the use of this product. Products with specific warnings about ingestion will give guidance there.
Skin contact	Read Section 2 for any specific precautions associated with the use of this product. In general most ceramic glazes, clays and special products will tend to have a drying effect on the skin and may cause some sensitivity to users with sensitive skin.
Eye contact	Read Section 2 for any specific precautions associated with the use of this product. In general most ceramic and special products contain materials that maybe abrasive to eyes. Keeping materials from contacting the eyes is prudent. If contact does occur, flush with clean water, do not rub.
Indication of immediate medic	al attention and special treatment needed
Notes for the doctor	Treat symptomatically.
5. Fire-fighting measures	
Extinguishing media	
Suitable extinguishing media	Use fire-extinguishing media suitable for the surrounding fire.
Special hazards arising from t	he substance or mixture
Specific hazards	The product is not believed to present a hazard due to its physical nature.
Advice for firefighters	
Special protective equipment for firefighters	Use protective equipment appropriate for surrounding materials.
6. Accidental release measure	IS State of the second s
Personal precautions, protecti	ve equipment and emergency procedures
Personal precautions	For personal protection, see Section 8.
Personal precautions Environmental precautions	For personal protection, see Section 8.
·	For personal protection, see Section 8. Please read Section 2 completely. If any environmental warnings such as; H411 or H412 are listed in Section 2, please use appropriate procedures when disposing of product and container. Do not put materials into waterways or sewers.
Environmental precautions	Please read Section 2 completely. If any environmental warnings such as; H411 or H412 are listed in Section 2, please use appropriate procedures when disposing of product and container. Do not put materials into waterways or sewers.
Environmental precautions Environmental precautions	Please read Section 2 completely. If any environmental warnings such as; H411 or H412 are listed in Section 2, please use appropriate procedures when disposing of product and container. Do not put materials into waterways or sewers.
Environmental precautions Environmental precautions Methods and material for cont	Please read Section 2 completely. If any environmental warnings such as; H411 or H412 are listed in Section 2, please use appropriate procedures when disposing of product and container. Do not put materials into waterways or sewers.
Environmental precautions Environmental precautions Methods and material for cont Methods for cleaning up	Please read Section 2 completely. If any environmental warnings such as; H411 or H412 are listed in Section 2, please use appropriate procedures when disposing of product and container. Do not put materials into waterways or sewers. ainment and cleaning up Collect spillage for reclamation or absorb in vermiculite, dry sand or similar material
Environmental precautions Environmental precautions Methods and material for cont Methods for cleaning up Reference to other sections	Please read Section 2 completely. If any environmental warnings such as; H411 or H412 are listed in Section 2, please use appropriate procedures when disposing of product and container. Do not put materials into waterways or sewers. ainment and cleaning up Collect spillage for reclamation or absorb in vermiculite, dry sand or similar material
Environmental precautions Environmental precautions Methods and material for cont Methods for cleaning up Reference to other sections 7. Handling and storage	Please read Section 2 completely. If any environmental warnings such as; H411 or H412 are listed in Section 2, please use appropriate procedures when disposing of product and container. Do not put materials into waterways or sewers. ainment and cleaning up Collect spillage for reclamation or absorb in vermiculite, dry sand or similar material
Environmental precautions Environmental precautions Methods and material for cont Methods for cleaning up Reference to other sections 7. Handling and storage Precautions for safe handling	Please read Section 2 completely. If any environmental warnings such as; H411 or H412 are listed in Section 2, please use appropriate procedures when disposing of product and container. Do not put materials into waterways or sewers. ainment and cleaning up Collect spillage for reclamation or absorb in vermiculite, dry sand or similar material For waste disposal, see Section 13. For personal protection, see Section 8. Read label before use. Do not eat, drink or smoke when using this product. Good personal hygiene procedures should be implemented. Wash hands and any other contaminated areas of the body with soap and water before leaving the work site.
Environmental precautions Environmental precautions Methods and material for cont Methods for cleaning up Reference to other sections 7. Handling and storage Precautions for safe handling Usage precautions	Please read Section 2 completely. If any environmental warnings such as; H411 or H412 are listed in Section 2, please use appropriate procedures when disposing of product and container. Do not put materials into waterways or sewers. ainment and cleaning up Collect spillage for reclamation or absorb in vermiculite, dry sand or similar material For waste disposal, see Section 13. For personal protection, see Section 8. Read label before use. Do not eat, drink or smoke when using this product. Good personal hygiene procedures should be implemented. Wash hands and any other contaminated areas of the body with soap and water before leaving the work site.
Environmental precautions Environmental precautions Methods and material for cont Methods for cleaning up Reference to other sections 7. Handling and storage Precautions for safe handling Usage precautions	Please read Section 2 completely. If any environmental warnings such as; H411 or H412 are listed in Section 2, please use appropriate procedures when disposing of product and container. Do not put materials into waterways or sewers. ainment and cleaning up Collect spillage for reclamation or absorb in vermiculite, dry sand or similar material For waste disposal, see Section 13. For personal protection, see Section 8. Read label before use. Do not eat, drink or smoke when using this product. Good personal hygiene procedures should be implemented. Wash hands and any other contaminated areas of the body with soap and water before leaving the work site. cluding any incompatibilities
Environmental precautions Environmental precautions Methods and material for cont Methods for cleaning up Reference to other sections 7. Handling and storage Precautions for safe handling Usage precautions Conditions for safe storage, in Storage precautions	Please read Section 2 completely. If any environmental warnings such as; H411 or H412 are listed in Section 2, please use appropriate procedures when disposing of product and container. Do not put materials into waterways or sewers. ainment and cleaning up Collect spillage for reclamation or absorb in vermiculite, dry sand or similar material For waste disposal, see Section 13. For personal protection, see Section 8. Read label before use. Do not eat, drink or smoke when using this product. Good personal hygiene procedures should be implemented. Wash hands and any other contaminated areas of the body with soap and water before leaving the work site. cluding any incompatibilities

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8.	Exposure	Controls	/personal	protection	
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Ingredient comments	Only ingredients listed n Section 3 are notifiable for this product. If none are shown then all ingredients are exempt.
Exposure controls	
Appropriate engineering controls	No specific ventilations requirements unless the "FAN" pictogram is shown above or specified in Section 2.
Eye/face protection	No specific eye protection required unless the "EYE PROTECTION" pictogram is shown above or specified in Section 2.
Hand protection	No specific hand protection required unless the "HAND PROTECTION" pictogram is shown above or specified in Section 2.
Hygiene measures	Using good personal hygiene practices is always appropriate. Keeping a clean work space, cleaning up properly when done, and not eating, drinking or smoking when using this product.
Respiratory protection	No specific respiratory protection required unless the "RESPIRATOR" pictogram is shown above or specified in Section 2. Using the appropriate certified protection for the operation is important if required.

9. Physical and Chemical Properties

Information on basic physical	and chemical properties
Appearance	Colored liquid.
Color	Various colors.
Odor	Almost odorless.
Odor threshold	No information available.
рН	6-8
Melting point	No information available.
Initial boiling point and range	No information available.
Flash point	No information available.
Evaporation rate	No information available.
Flammability (solid, gas)	No information available.
Upper/lower flammability or explosive limits	No information available.
Vapor pressure	No information available.
Relative density	Greater than 1.0
Solubility(ies)	Not applicable.
Partition coefficient	No information available.
Auto-ignition temperature	Not applicable.
Decomposition Temperature	No information available.
Viscosity	No information available.
Explosive properties	none
Oxidizing properties	none

Other information	Not applicable.
10. Stability and reactivity	
Reactivity	There are no known reactivity hazards associated with this product.
Stability	No particular stability concerns.
Possibility of hazardous reactions	None known.
Conditions to avoid	None known.
Materials to avoid	None known.
Hazardous decomposition products	None known.
11. Toxicological information	
Information on toxicological ef	fects
Toxicological effects	Please read Section 2 thoroughly to understand the toxicological risks, (if any) and precautions for safe use (if any).
Skin corrosion/irritation	
Skin sensitization	
Skin sensitization	Based on available data the classification criteria are not met.
Eye contact	May cause temporary eye irritation.
12. Ecological Information	
Ecotoxicity	Please read Section 2 completely. If any environmental warnings such as; H411 or H412 are listed in Section 2, please use appropriate procedures when disposing of product and container. Do not put materials into waterways or sewers.
Toxicity	Please read Section 2 completely. If any environmental warnings such as; H411 or H412 are listed in Section 2, please use appropriate procedures when disposing of product and container. Do not put materials into waterways or sewers.
Persistence and degradability	
Persistence and degradability	
	No data available.
Biodegradation	No data available. Not inherently biodegradable.
Biodegradation Bioaccumulative potential	
-	
Bioaccumulative potential	Not inherently biodegradable.
Bioaccumulative potential Partition coefficient	Not inherently biodegradable.
Bioaccumulative potential Partition coefficient Mobility in soil	Not inherently biodegradable. No information available.
Bioaccumulative potential Partition coefficient Mobility in soil Mobility	Not inherently biodegradable. No information available.

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	Dispose of waste product or used containers in accordance with local regulations When handling waste, the safety precautions applying to handling of the product should be considered.
14. Transport information	
General	The product is not covered by international regulations on the transport of dangerous goods (IMDG, IATA, DOT).
UN Number	
Not applicable.	
UN proper shipping name	
Not applicable.	
Transport hazard class(es	
No transport warning sign	required.
Packing group	
Not applicable.	
Environmental hazards	
please verify packaging ar Special precautions for us	nd labeling requirements for larger volumes.
Not applicable. Transport in bulk accordin Annex II of MARPOL 73/7 and the IBC Code	g to Not applicable.
Transport in bulk accordin Annex II of MARPOL 73/7 and the IBC Code	g to Not applicable. 8
Transport in bulk accordin Annex II of MARPOL 73/7 and the IBC Code 15. Regulatory informatior	g to Not applicable. 8
Transport in bulk accordin Annex II of MARPOL 73/7 and the IBC Code 15. Regulatory information US State Regulations	g to Not applicable. 8 1 Carcinogens and Reproductive Toxins
Transport in bulk accordin Annex II of MARPOL 73/7 and the IBC Code 15. Regulatory information US State Regulations California Proposition 65 o	g to Not applicable. 8 Carcinogens and Reproductive Toxins re listed or exempt.
Transport in bulk accordin Annex II of MARPOL 73/7 and the IBC Code 15. Regulatory information US State Regulations California Proposition 65 (None of the ingredients an Massachusetts "Right To	g to Not applicable. 8 Carcinogens and Reproductive Toxins re listed or exempt. Know" List
Transport in bulk accordin Annex II of MARPOL 73/7 and the IBC Code 15. Regulatory information US State Regulations California Proposition 65 (None of the ingredients an Massachusetts "Right To Present. Hydrated Aluminium Silica	g to Not applicable. 8 Carcinogens and Reproductive Toxins re listed or exempt. Know" List
Transport in bulk accordin Annex II of MARPOL 73/7 and the IBC Code 15. Regulatory information US State Regulations California Proposition 65 of None of the ingredients an Massachusetts "Right To Present. Hydrated Aluminium Silica 1-5% 2-aminoethanol	g to Not applicable. 8 Carcinogens and Reproductive Toxins re listed or exempt. Know" List ate
Transport in bulk accordin Annex II of MARPOL 73/7 and the IBC Code 15. Regulatory information US State Regulations California Proposition 65 (None of the ingredients an Massachusetts "Right To Present. Hydrated Aluminium Silica 1-5% 2-aminoethanol <1% Rhode Island "Right To K	g to Not applicable. 8 Carcinogens and Reproductive Toxins re listed or exempt. Know" List ate now" List
Transport in bulk accordin Annex II of MARPOL 73/7 and the IBC Code 15. Regulatory information US State Regulations California Proposition 65 G None of the ingredients at Massachusetts "Right To Present. Hydrated Aluminium Silica 1-5% 2-aminoethanol <1% Rhode Island "Right To K Present. Hydrated Aluminium Silica	g to Not applicable. 8 Carcinogens and Reproductive Toxins re listed or exempt. Know" List ate now" List

Minnesota "Right To Know" List

Hydrated Aluminium Silicate 1-5% *2-aminoethanol* <1%

New Jersey "Right To Know" List Present.

Hydrated Aluminium Silicate 1-5%

2-aminoethanol <1%

Pennsylvania "Right To Know" List

Present.

Present

Hydrated Aluminium Silicate 1-5% 2-aminoethanol <1%

Inventories

Canada - DSL/NDSL All the ingredients are listed or exempt.

US - TSCA

All the ingredients are listed or exempt.

US - TSCA 12(b) Export Notification

All the ingredients are listed or exempt.

16. Other information	
General information	The following are the top 5 materials by weight listed for New Jersey (if applicable):- Water 7732-18-5, Non Lead Frit65997-18-4, Hydrated Aluminum Silicate1332-58-7, Zirconium Aluminum Silicate10101-52-7, Various Pigments
Revision date	7/6/2017
Revision	23
Supersedes date	7/6/2017
SDS No.	6006

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty, guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.

SAFETY DATA SHEET TPL-45 Emerald

1. Identification	
Product identifier	
Product name	TPL-45 Emerald
Recommended use of the che	emical and restrictions on use
Application	ceramic glaze
Details of the supplier of the s	safety data sheet
Supplier	
	American Art Clay Co Inc 6060 Guion Road
	Indianapolis,
	IN 46254-1222
	USA
	Toll Free: 1-800-925-5195 ext. 1303
	Local: 1-317-243-0066 ext. 1303
Emergency telephone numbe	<u>r</u>
Emergency telephone	1 317 243 0066 ext. 1303 Mon-Fri, 0900-1700 EST
2. Hazard(s) identification	
Classification of the substanc	e or mixture
Physical hazards	Not Classified
Health hazards	Not Classified
Environmental hazards	Not Classified
Label elements	
Hazard statements	NC Not Classified
Other hazards	
none present	
3. Composition/information or	n ingredients
Mixtures	
Composition comments	Only ingredients listed above are notifiable for this product. If none are shown then all ingredients are exempt.
4. First-aid measures	
Description of first aid measu	res
General information	-
Ingestion	Do not induce vomiting. Rinse mouth thoroughly with water. Give a few small glasses of water or milk to drink. Get medical attention if any discomfort continues.
Skin Contact	Wash skin thoroughly with soap and water.
Eye contact	Rinse with water.
Most important symptoms and	d effects, both acute and delayed

Inhalation	Read Section 2 for any specific precautions associated with this product. In general, breathing any type of dust / mist can and may aggravate irritation of the throat and lungs.
Ingestion	Read Section 2 for any specific precautions associated with the use of this product. Products with specific warnings about ingestion will give guidance there.
Skin contact	Read Section 2 for any specific precautions associated with the use of this product. In general most ceramic glazes, clays and special products will tend to have a drying effect on the skin and may cause some sensitivity to users with sensitive skin.
Eye contact	Read Section 2 for any specific precautions associated with the use of this product. In general most ceramic and special products contain materials that maybe abrasive to eyes. Keeping materials from contacting the eyes is prudent. If contact does occur, flush with clean water, do not rub.
Indication of immediate medic	al attention and special treatment needed
Notes for the doctor	Treat symptomatically.
5. Fire-fighting measures	
Extinguishing media	
Suitable extinguishing media	Use fire-extinguishing media suitable for the surrounding fire.
Special hazards arising from t	he substance or mixture
Specific hazards	The product is not believed to present a hazard due to its physical nature.
Advice for firefighters	
Special protective equipment for firefighters	Use protective equipment appropriate for surrounding materials.
6. Accidental release measure	S
	ve equipment and emergency procedures
Personal precautions, protecti	ve equipment and emergency procedures
Personal precautions, protecti Personal precautions	ve equipment and emergency procedures
Personal precautions, protecti Personal precautions Environmental precautions	ve equipment and emergency procedures For personal protection, see Section 8. Please read Section 2 completely. If any environmental warnings such as; H411 or H412 are listed in Section 2, please use appropriate procedures when disposing of product and container. Do not put materials into waterways or sewers.
Personal precautions, protecti Personal precautions Environmental precautions Environmental precautions	ve equipment and emergency procedures For personal protection, see Section 8. Please read Section 2 completely. If any environmental warnings such as; H411 or H412 are listed in Section 2, please use appropriate procedures when disposing of product and container. Do not put materials into waterways or sewers.
Personal precautions, protecti Personal precautions Environmental precautions Environmental precautions Methods and material for cont	ve equipment and emergency procedures For personal protection, see Section 8. Please read Section 2 completely. If any environmental warnings such as; H411 or H412 are listed in Section 2, please use appropriate procedures when disposing of product and container. Do not put materials into waterways or sewers. ainment and cleaning up
Personal precautions, protecti Personal precautions Environmental precautions Environmental precautions Methods and material for cont Methods for cleaning up	ve equipment and emergency procedures For personal protection, see Section 8. Please read Section 2 completely. If any environmental warnings such as; H411 or H412 are listed in Section 2, please use appropriate procedures when disposing of product and container. Do not put materials into waterways or sewers. ainment and cleaning up Collect spillage for reclamation or absorb in vermiculite, dry sand or similar material
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Personal precautions, protecti Personal precautions Environmental precautions Environmental precautions Methods and material for cont Methods for cleaning up Reference to other sections 7. Handling and storage Precautions for safe handling Usage precautions	ve equipment and emergency procedures For personal protection, see Section 8. Please read Section 2 completely. If any environmental warnings such as; H411 or H412 are listed in Section 2, please use appropriate procedures when disposing of product and container. Do not put materials into waterways or sewers. ainment and cleaning up Collect spillage for reclamation or absorb in vermiculite, dry sand or similar material For waste disposal, see Section 13. For personal protection, see Section 8. Read label before use. Do not eat, drink or smoke when using this product. Good personal hygiene procedures should be implemented. Wash hands and any other contaminated areas of the body with soap and water before leaving the work site.
Personal precautions, protecti Personal precautions <u>Environmental precautions</u> Environmental precautions Environmental precautions <u>Methods and material for cont</u> Methods for cleaning up Reference to other sections 7. Handling and storage <u>Precautions for safe handling</u> Usage precautions <u>Conditions for safe storage, in</u>	ve equipment and emergency procedures For personal protection, see Section 8. Please read Section 2 completely. If any environmental warnings such as; H411 or H412 are listed in Section 2, please use appropriate procedures when disposing of product and container. Do not put materials into waterways or sewers. ainment and cleaning up Collect spillage for reclamation or absorb in vermiculite, dry sand or similar material For waste disposal, see Section 13. For personal protection, see Section 8. Read label before use. Do not eat, drink or smoke when using this product. Good personal hygiene procedures should be implemented. Wash hands and any other contaminated areas of the body with soap and water before leaving the work site. cluding any incompatibilities
Personal precautions, protecti Personal precautions Environmental precautions Environmental precautions Methods and material for cont Methods for cleaning up Reference to other sections 7. Handling and storage Precautions for safe handling Usage precautions Conditions for safe storage, in Storage precautions	ve equipment and emergency procedures For personal protection, see Section 8. Please read Section 2 completely. If any environmental warnings such as; H411 or H412 are listed in Section 2, please use appropriate procedures when disposing of product and container. Do not put materials into waterways or sewers. ainment and cleaning up Collect spillage for reclamation or absorb in vermiculite, dry sand or similar material For waste disposal, see Section 13. For personal protection, see Section 8. Read label before use. Do not eat, drink or smoke when using this product. Good personal hygiene procedures should be implemented. Wash hands and any other contaminated areas of the body with soap and water before leaving the work site. cluding any incompatibilities

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8. Exposure Controls/persona	I protection
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Ingredient comments	Only ingredients listed n Section 3 are notifiable for this product. If none are shown then all ingredients are exempt.
Exposure controls	
Appropriate engineering controls	No specific ventilations requirements unless the "FAN" pictogram is shown above or specified in Section 2.
Eye/face protection	No specific eye protection required unless the "EYE PROTECTION" pictogram is shown above or specified in Section 2.
Hand protection	No specific hand protection required unless the "HAND PROTECTION" pictogram is shown above or specified in Section 2.
Hygiene measures	Using good personal hygiene practices is always appropriate. Keeping a clean work space, cleaning up properly when done, and not eating, drinking or smoking when using this product.
Respiratory protection	No specific respiratory protection required unless the "RESPIRATOR" pictogram is shown above or specified in Section 2. Using the appropriate certified protection for the operation is important if required.

9. Physical and Chemical Properties

Information on basic physical	and chemical properties
Appearance	Colored liquid.
Color	Various colors.
Odor	Almost odorless.
Odor threshold	No information available.
рН	6-8
Melting point	No information available.
Initial boiling point and range	No information available.
Flash point	No information available.
Evaporation rate	No information available.
Flammability (solid, gas)	No information available.
Upper/lower flammability or explosive limits	No information available.
Vapor pressure	No information available.
Relative density	Greater than 1.0
Solubility(ies)	Not applicable.
Partition coefficient	No information available.
Auto-ignition temperature	Not applicable.
Decomposition Temperature	No information available.
Viscosity	No information available.
Explosive properties	none
Oxidizing properties	none

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Other information	Not applicable.
10. Stability and reactivity	
Reactivity	There are no known reactivity hazards associated with this product.
Stability	No particular stability concerns.
Possibility of hazardous reactions	None known.
Conditions to avoid	None known.
Materials to avoid	None known.
Hazardous decomposition products	None known.
11. Toxicological information	
Information on toxicological ef	fects
Toxicological effects	Please read Section 2 thoroughly to understand the toxicological risks, (if any) and precautions for safe use (if any).
Skin corrosion/irritation	
Skin sensitization	
Skin sensitization	Based on available data the classification criteria are not met.
Eye contact	May cause temporary eye irritation.
12. Ecological Information	
Ecotoxicity	Please read Section 2 completely. If any environmental warnings such as; H411 or H412 are listed in Section 2, please use appropriate procedures when disposing of product and container. Do not put materials into waterways or sewers.
Toxicity	Please read Section 2 completely. If any environmental warnings such as; H411 or H412 are listed in Section 2, please use appropriate procedures when disposing of product and container. Do not put materials into waterways or sewers.
Persistence and degradability	
Persistence and degradability	No data available.
Biodegradation	Not inherently biodegradable.
Bioaccumulative potential	
Partition coefficient	No information available.
Mobility in soil	
Mobility	Semi-mobile.
Other adverse effects	
Other adverse effects	None known.
13. Disposal considerations	

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General information	Dispose of waste product or used containers in accordance with local regulations When handling waste, the safety precautions applying to handling of the product should be considered.
14. Transport information	
General	The product is not covered by international regulations on the transport of dangerous goods (IMDG, IATA, DOT).
UN Number	
Not applicable.	
UN proper shipping name	
Not applicable.	
Transport hazard class(es)	
No transport warning sign	required.
Packing group	
Not applicable.	
Environmental hazards	
olease verify packaging ar Special precautions for use	or any environmental hazards associated with this product. If H411/H412 warnings are shown then I labeling requirements for larger volumes. ar
olease verify packaging ar Special precautions for use Not applicable. Transport in bulk according Annex II of MARPOL 73/74	id labeling requirements for larger volumes. er g to Not applicable.
please verify packaging an Special precautions for use Not applicable. Transport in bulk according Annex II of MARPOL 73/76 and the IBC Code 15. Regulatory information	id labeling requirements for larger volumes. ar g to Not applicable.
please verify packaging an Special precautions for use Not applicable. Transport in bulk according Annex II of MARPOL 73/74 and the IBC Code 15. Regulatory information US State Regulations California Proposition 65 (None of the ingredients ar Massachusetts "Right To I Present. Hydrated Aluminium Silica 1-5% 2-aminoethanol	a labeling requirements for larger volumes. The second se
Delease verify packaging an Special precautions for use Not applicable. Transport in bulk according Annex II of MARPOL 73/74 and the IBC Code 15. Regulatory information US State Regulations California Proposition 65 (None of the ingredients ar Massachusetts "Right To I Present. Hydrated Aluminium Silica 1-5%	In the labeling requirements for larger volumes.
Delease verify packaging an Special precautions for use Not applicable. Transport in bulk according Annex II of MARPOL 73/76 and the IBC Code 15. Regulatory information US State Regulations California Proposition 65 C None of the ingredients ar Massachusetts "Right To I Present. Hydrated Aluminium Silica 1-5% 2-aminoethanol <1% Rhode Island "Right To Ki	a to Not applicable. Carcinogens and Reproductive Toxins e listed or exempt. Know" List now" List

Minnesota "Right To Know" List

Hydrated Aluminium Silicate 1-5% 2-aminoethanol <1%

New Jersey "Right To Know" List Present.

Hydrated Aluminium Silicate 1-5%

2-aminoethanol <1%

Present

Pennsylvania "Right To Know" List

Present. Hydrated Aluminium Silicate 1-5%

2-aminoethanol <1%

Inventories

Canada - DSL/NDSL All the ingredients are listed or exempt.

US - TSCA

All the ingredients are listed or exempt.

US - TSCA 12(b) Export Notification

All the ingredients are listed or exempt.

16. Other information	
General information	The following are the top 5 materials by weight listed for New Jersey (if applicable):- Water 7732-18-5, Non Lead Frit65997-18-4, Hydrated Aluminum Silicate1332-58-7, Zirconium Aluminum Silicate10101-52-7, Various Pigments
Revision date	7/6/2017
Revision	25
Supersedes date	7/6/2017
SDS No.	6008

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty, guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.

SAFETY DATA SHEET TPL-5 Quartz

1. Identification		
Product identifier		
Product name	TPL-5 Quartz	
Recommended use of the chemical and restrictions on use		
Application	ceramic glaze	
Details of the supplier of the safety data sheet		
Supplier	American Art Clay Co Inc	
	6060 Guion Road	
	Indianapolis,	
	IN 46254-1222 USA	
	Toll Free: 1-800-925-5195 ext. 1303	
	Local: 1-317-243-0066 ext. 1303	
Emergency telephone number		
Emergency telephone	1 317 243 0066 ext. 1303 Mon-Fri, 0900-1700 EST	
2. Hazard(s) identification		
Classification of the substance	e or mixture	
Physical hazards	Not Classified	
Health hazards	Not Classified	
Environmental hazards	Not Classified	
Label elements		
Hazard statements	NC Not Classified	
Other hazards		
none present		
3. Composition/information of	n ingredients	
Mixtures		
Composition comments	Only ingredients listed above are notifiable for this product. If none are shown then all ingredients are exempt.	
4. First-aid measures		
Description of first aid measu	res	
General information		
Ingestion	Do not induce vomiting. Rinse mouth thoroughly with water. Give a few small glasses of water or milk to drink. Get medical attention if any discomfort continues.	
Skin Contact	Wash skin thoroughly with soap and water.	
Eye contact	Rinse with water.	
Most important symptoms and effects, both acute and delayed		

Specific end use(s)	The identified uses for this product are detailed in Section 1.
Specific end uses(s)	
Storage precautions	Store in tightly-closed, original container in a dry and cool place.
Conditions for safe storage, in	cluding any incompatibilities
	of the body with soap and water before leaving the work site.
Couge provadiona	hygiene procedures should be implemented. Wash hands and any other contaminated areas
Precautions for safe handling Usage precautions	Read label before use. Do not eat, drink or smoke when using this product. Good personal
7. Handling and storage	
Reference to other sections	For waste disposal, see Section 13. For personal protection, see Section 8.
Methods for cleaning up	Collect spillage for reclamation or absorb in vermiculite, dry sand or similar material
Methods and material for cont	ainment and cleaning up
Environmental precautions Environmental precautions	Please read Section 2 completely. If any environmental warnings such as; H411 or H412 are listed in Section 2, please use appropriate procedures when disposing of product and container. Do not put materials into waterways or sewers.
Personal precautions	For personal protection, see Section 8.
	ve equipment and emergency procedures
6. Accidental release measure	łS
for firefighters	
Special protective equipment	Use protective equipment appropriate for surrounding materials.
Advice for firefighters	
Specific hazards	The product is not believed to present a hazard due to its physical nature.
Special hazards arising from the	
Extinguishing media Suitable extinguishing media	Use fire-extinguishing media suitable for the surrounding fire.
5. Fire-fighting measures	
Indication of immediate medic	al attention and special treatment needed Treat symptomatically.
Eye contact	Read Section 2 for any specific precautions associated with the use of this product. In general most ceramic and special products contain materials that maybe abrasive to eyes. Keeping materials from contacting the eyes is prudent. If contact does occur, flush with clean water, do not rub.
Skin contact	Read Section 2 for any specific precautions associated with the use of this product. In general most ceramic glazes, clays and special products will tend to have a drying effect on the skin and may cause some sensitivity to users with sensitive skin.
Ingestion	Read Section 2 for any specific precautions associated with the use of this product. Products with specific warnings about ingestion will give guidance there.
Inhalation	Read Section 2 for any specific precautions associated with this product. In general, breathing any type of dust / mist can and may aggravate irritation of the throat and lungs.

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Ingredient comments	Only ingredients listed n Section 3 are notifiable for this product. If none are shown then all ingredients are exempt.
Exposure controls	
Appropriate engineering controls	No specific ventilations requirements unless the "FAN" pictogram is shown above or specified in Section 2.
Eye/face protection	No specific eye protection required unless the "EYE PROTECTION" pictogram is shown above or specified in Section 2.
Hand protection	No specific hand protection required unless the "HAND PROTECTION" pictogram is shown above or specified in Section 2.
Hygiene measures	Using good personal hygiene practices is always appropriate. Keeping a clean work space, cleaning up properly when done, and not eating, drinking or smoking when using this product.
Respiratory protection	No specific respiratory protection required unless the "RESPIRATOR" pictogram is shown above or specified in Section 2. Using the appropriate certified protection for the operation is important if required.

9. Physical and Chemical Properties

Information on basic physical and chemical properties	
Appearance	Colored liquid.
Color	Various colors.
Odor	Almost odorless.
Odor threshold	No information available.
рН	6-8
Melting point	No information available.
Initial boiling point and range	No information available.
Flash point	No information available.
Evaporation rate	No information available.
Flammability (solid, gas)	No information available.
Upper/lower flammability or explosive limits	No information available.
Vapor pressure	No information available.
Relative density	Greater than 1.0
Solubility(ies)	Not applicable.
Partition coefficient	No information available.
Auto-ignition temperature	Not applicable.
Decomposition Temperature	No information available.
Viscosity	No information available.
Explosive properties	none
Oxidizing properties	none

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Other information	Not applicable.
10. Stability and reactivity	
Reactivity	There are no known reactivity hazards associated with this product.
Stability	No particular stability concerns.
Possibility of hazardous reactions	None known.
Conditions to avoid	None known.
Materials to avoid	None known.
Hazardous decomposition products	None known.
11. Toxicological information	
Information on toxicological eff	fects
Toxicological effects	Please read Section 2 thoroughly to understand the toxicological risks, (if any) and precautions for safe use (if any).
Skin corrosion/irritation	
Skin sensitization	
Skin sensitization	Based on available data the classification criteria are not met.
Eye contact	May cause temporary eye irritation.
Eye contact 12. Ecological Information	May cause temporary eye irritation.
-	May cause temporary eye irritation. Please read Section 2 completely. If any environmental warnings such as; H411 or H412 are listed in Section 2, please use appropriate procedures when disposing of product and container. Do not put materials into waterways or sewers.
12. Ecological Information	Please read Section 2 completely. If any environmental warnings such as; H411 or H412 are listed in Section 2, please use appropriate procedures when disposing of product and
12. Ecological Information Ecotoxicity	Please read Section 2 completely. If any environmental warnings such as; H411 or H412 are listed in Section 2, please use appropriate procedures when disposing of product and container. Do not put materials into waterways or sewers. Please read Section 2 completely. If any environmental warnings such as; H411 or H412 are listed in Section 2, please use appropriate procedures when disposing of product and
12. Ecological Information Ecotoxicity Toxicity	Please read Section 2 completely. If any environmental warnings such as; H411 or H412 are listed in Section 2, please use appropriate procedures when disposing of product and container. Do not put materials into waterways or sewers. Please read Section 2 completely. If any environmental warnings such as; H411 or H412 are listed in Section 2, please use appropriate procedures when disposing of product and
12. Ecological Information Ecotoxicity Toxicity Persistence and degradability	Please read Section 2 completely. If any environmental warnings such as; H411 or H412 are listed in Section 2, please use appropriate procedures when disposing of product and container. Do not put materials into waterways or sewers. Please read Section 2 completely. If any environmental warnings such as; H411 or H412 are listed in Section 2, please use appropriate procedures when disposing of product and container. Do not put materials into waterways or sewers.
12. Ecological Information Ecotoxicity Toxicity Persistence and degradability Persistence and degradability	 Please read Section 2 completely. If any environmental warnings such as; H411 or H412 are listed in Section 2, please use appropriate procedures when disposing of product and container. Do not put materials into waterways or sewers. Please read Section 2 completely. If any environmental warnings such as; H411 or H412 are listed in Section 2, please use appropriate procedures when disposing of product and container. Do not put materials into waterways or sewers. No data available.
12. Ecological Information Ecotoxicity Toxicity Persistence and degradability Persistence and degradability Biodegradation	 Please read Section 2 completely. If any environmental warnings such as; H411 or H412 are listed in Section 2, please use appropriate procedures when disposing of product and container. Do not put materials into waterways or sewers. Please read Section 2 completely. If any environmental warnings such as; H411 or H412 are listed in Section 2, please use appropriate procedures when disposing of product and container. Do not put materials into waterways or sewers. No data available.
12. Ecological Information Ecotoxicity Toxicity Persistence and degradability Persistence and degradability Biodegradation Bioaccumulative potential	 Please read Section 2 completely. If any environmental warnings such as; H411 or H412 are listed in Section 2, please use appropriate procedures when disposing of product and container. Do not put materials into waterways or sewers. Please read Section 2 completely. If any environmental warnings such as; H411 or H412 are listed in Section 2, please use appropriate procedures when disposing of product and container. Do not put materials into waterways or sewers. No data available. Not inherently biodegradable.
12. Ecological Information Ecotoxicity Toxicity Persistence and degradability Persistence and degradability Biodegradation Bioaccumulative potential Partition coefficient	 Please read Section 2 completely. If any environmental warnings such as; H411 or H412 are listed in Section 2, please use appropriate procedures when disposing of product and container. Do not put materials into waterways or sewers. Please read Section 2 completely. If any environmental warnings such as; H411 or H412 are listed in Section 2, please use appropriate procedures when disposing of product and container. Do not put materials into waterways or sewers. No data available. Not inherently biodegradable.
12. Ecological Information Ecotoxicity Toxicity Persistence and degradability Persistence and degradability Biodegradation Bioaccumulative potential Partition coefficient Mobility in soil	Please read Section 2 completely. If any environmental warnings such as; H411 or H412 are listed in Section 2, please use appropriate procedures when disposing of product and container. Do not put materials into waterways or sewers. Please read Section 2 completely. If any environmental warnings such as; H411 or H412 are listed in Section 2, please use appropriate procedures when disposing of product and container. Do not put materials into waterways or sewers. No data available. Not inherently biodegradable.
12. Ecological Information Ecotoxicity Toxicity Persistence and degradability Piodegradation Biodegradation Bioaccumulative potential Partition coefficient Mobility in soil Mobility	Please read Section 2 completely. If any environmental warnings such as; H411 or H412 are listed in Section 2, please use appropriate procedures when disposing of product and container. Do not put materials into waterways or sewers. Please read Section 2 completely. If any environmental warnings such as; H411 or H412 are listed in Section 2, please use appropriate procedures when disposing of product and container. Do not put materials into waterways or sewers. No data available. Not inherently biodegradable.

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	Dispose of waste product or used containers in accordance with local regulations When handling waste, the safety precautions applying to handling of the product should be considered.
14. Transport information	
General	The product is not covered by international regulations on the transport of dangerous goods (IMDG, IATA, DOT).
UN Number	
Not applicable.	
UN proper shipping name	
Not applicable.	
Transport hazard class(es	<u>)</u>
No transport warning sign	required.
Packing group	
Not applicable.	
Environmental hazards	
Environmentally Hazardou	is Substance
Not applicable. Transport in bulk accordin Annex II of MARPOL 73/7	g to Not applicable.
Not applicable. Transport in bulk accordin Annex II of MARPOL 73/7 and the IBC Code	g to Not applicable. 8
Not applicable. Transport in bulk accordin Annex II of MARPOL 73/7 and the IBC Code 15. Regulatory information	g to Not applicable. 8
Not applicable. Transport in bulk accordin Annex II of MARPOL 73/7 and the IBC Code 15. Regulatory information US State Regulations California Proposition 65 None of the ingredients a	g to Not applicable. 8 Carcinogens and Reproductive Toxins re listed or exempt.
Not applicable. Transport in bulk accordin Annex II of MARPOL 73/7 and the IBC Code 15. Regulatory information US State Regulations California Proposition 65 None of the ingredients a	g to Not applicable. 8 Carcinogens and Reproductive Toxins re listed or exempt.
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Not applicable. Transport in bulk accordin Annex II of MARPOL 73/7 and the IBC Code 15. Regulatory information US State Regulations California Proposition 65 None of the ingredients a Massachusetts "Right To Present. Hydrated Aluminium Silic. 1-5% 2-aminoethanol <1% Rhode Island "Right To K	g to Not applicable. 8 Carcinogens and Reproductive Toxins re listed or exempt. Know" List ate
Not applicable. Transport in bulk accordin Annex II of MARPOL 73/7 and the IBC Code 15. Regulatory information US State Regulations California Proposition 65 None of the ingredients a Massachusetts "Right To Present. Hydrated Aluminium Silic. 1-5% 2-aminoethanol <1%	g to Not applicable. 8 Carcinogens and Reproductive Toxins re listed or exempt. Know" List ate now" List
None of the ingredients a Massachusetts "Right To Present. <i>Hydrated Aluminium Silic.</i> 1-5% 2-aminoethanol <1% Rhode Island "Right To K Present. <i>Hydrated Aluminium Silic.</i>	g to Not applicable. 8 Carcinogens and Reproductive Toxins re listed or exempt. Know" List ate now" List

Minnesota "Right To Know" List

Hydrated Aluminium Silicate 1-5% *2-aminoethanol* <1%

New Jersey "Right To Know" List Present.

Hydrated Aluminium Silicate 1-5%

2-aminoethanol <1%

Pennsylvania "Right To Know" List

Present.

Present

Hydrated Aluminium Silicate 1-5% 2-aminoethanol <1%

Inventories

Canada - DSL/NDSL All the ingredients are listed or exempt.

US - TSCA

All the ingredients are listed or exempt.

US - TSCA 12(b) Export Notification

All the ingredients are listed or exempt.

16. Other information	
General information	The following are the top 5 materials by weight listed for New Jersey (if applicable):- Water 7732-18-5, Non Lead Frit65997-18-4, Hydrated Aluminum Silicate1332-58-7, Zirconium Aluminum Silicate10101-52-7, Various Pigments
Revision date	7/6/2017
Revision	21
Supersedes date	7/6/2017
SDS No.	6002

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty, guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.