

# SAFETY DATA SHEET PC-38 Iron Yellow

According to Appendix D, OSHA Hazard Communication Standard 29 CFR §1910.1200

1. Identification	
Product identifier	
Product name	PC-38 Iron Yellow
Product number	35479B, 35487J
Recommended use of the che	emical and restrictions on use
Application	Ceramic Glaze
Uses advised against	No specific uses advised against are identified.
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: 1-800-999-5456 CustomerCare@Amaco.com
Emergency telephone number	r
Emergency telephone	Poison Control 1-800-222-1222
2. Hazard(s) identification	
Classification of the substance	ə or mixture
Physical hazards	Not Classified
Health hazards	Skin Sens. 1 - H317 Carc. 1A - H350 STOT RE 1 - H372
Environmental hazards	Aquatic Acute 2 - H401 Aquatic Chronic 2 - H411
Label elements	
Hazard symbols	
♦	
Signal word	Danger
Hazard statements	H317 May cause an allergic skin reaction. H350 May cause cancer. H372 Causes damage to organs through prolonged or repeated exposure. H411 Toxic to aquatic life with long lasting effects.

<ul> <li>2 Do not handle until all safety precautions have been read and understood.</li> <li>0 Do not breathe vapor/ spray.</li> <li>1 Avoid breathing vapor/ spray.</li> <li>4 Wash contaminated skin thoroughly after handling.</li> <li>0 Do not eat, drink or smoke when using this product.</li> <li>2 Contaminated work clothing must not be allowed out of the workplace.</li> <li>3 Avoid release to the environment.</li> <li>0 Wear protective gloves/ protective clothing/ eye protection/ face protection.</li> <li>2+P352 If on skin: Wash with plenty of water.</li> <li>8+P313 If exposed or concerned: Get medical advice/ attention.</li> <li>4 Get medical advice/ attention if you feel unwell.</li> <li>1 Specific treatment (see medical advice on this label).</li> <li>3+P313 If skin irritation or rash occurs: Get medical advice/ attention.</li> <li>2+P364 Take off contaminated clothing and wash it before reuse.</li> <li>1 Collect spillage.</li> <li>5 Store locked up.</li> </ul>
1 Dispose of contents/ container in accordance with national regulations. con dioxide, Titanium Dioxide, 2,2,2 Hexahydro-1,3.5-triazine-1,3,5 triyl triethanol

### Silicon dioxide, Titanium Dioxide, 2,2,2 Hexahydro-1,3.5-triazine-1,3,5 triyl triethanol

### Other hazards

This product does not contain any substances classified as PBT or vPvB.

3. Composition/information on ingredients		
Mixtures		
Silicon dioxide		max 30%
CAS number: 14808-60-7		
Classification		
Carc. 1A - H350i		
STOT RE 1 - H372		
Aluminum Silicate (Kaolin)		max 15%
CAS number: 1332-58-7		
Classification		
Not Classified		
Zinc Oxide		max 15%
CAS number: 1314-13-2		
M factor (Acute) = 1	M factor (Chronic) = 1	
Classification		
Aquatic Acute 1 - H400		
Aquatic Chronic 1 - H410		
Titanium Dioxide		max 15%
CAS number: 13463-67-7		
Classification		
Carc. 2 - H351		

<b>Classification</b> Acute Tox. 4 - H302 Acute Tox. 2 - H330 Eye Irrit. 2A - H319 Skin Sens. 1 - H317 STOT RE 1 - H372	
The full text for all hazard sta	tements is displayed in Section 16.
4. First-aid measures	
Description of first aid measu	ires
General information	Get medical attention immediately. Show this Safety Data Sheet to the medical personnel.
nhalation	Remove affected person from source of contamination. Move affected person to fresh air and keep war and at rest in a position comfortable for breathing. Maintain an open airway. Loosen tight clothing such collar, tie or belt. When breathing is difficult, properly trained personnel may assist affected person by administering oxygen. Place unconscious person on their side in the recovery position and ensure breathing can take place.
ngestion	Rinse mouth thoroughly with water. Give a few small glasses of water or milk to drink. Stop if the affected person feels sick as vomiting may be dangerous. Do not induce vomiting unless under the direction of medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lum. Never give anything by mouth to an unconscious person. Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. Place unconscious person on their side in the recovery position and ensure breathing can take place. Maintain an open airway. Loosen tight clothing such as collar, tie or belt.
Skin Contact	It is important to remove the substance from the skin immediately. In the event of any sensitization symptoms developing, ensure further exposure is avoided. Remove contamination with soap and water recognized skin cleansing agent. Get medical attention if symptoms are severe or persist after washing
Eye contact	Rinse immediately with plenty of water. Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 10 minutes.
Protection of first aiders	First aid personnel should wear appropriate protective equipment during any rescue. If it is suspected to volatile contaminants are still present around the affected person, first aid personnel should wear an appropriate respirator or self-contained breathing apparatus. Wash contaminated clothing thoroughly w water before removing it from the affected person, or wear gloves. It may be dangerous for first aid personnel to carry out mouth-to-mouth resuscitation.
Most important symptoms an	d effects, both acute and delayed
General information	See Section 11 for additional information on health hazards. The severity of the symptoms described w vary dependent on the concentration and the length of exposure.
nhalation	Prolonged inhalation of high concentrations may damage respiratory system. Prolonged or repeated exposure may cause the following adverse effects: Suspected of causing cancer.
ngestion	May cause sensitization or allergic reactions in sensitive individuals. Gastrointestinal symptoms, includi upset stomach. Fumes from the stomach contents may be inhaled, resulting in the same symptoms as inhalation. Prolonged or repeated exposure may cause the following adverse effects: Suspected of causing cancer.
Skin contact	May cause skin sensitization or allergic reactions in sensitive individuals. Prolonged contact may cause dryness of the skin. Prolonged or repeated exposure may cause the following adverse effects: Suspect of causing cancer.
Eye contact	May cause temporary eye irritation.
Indication of immediate medi	cal attention and special treatment needed
naioalon or in inculate mean	

5. Fire-fighting measures	
Extinguishing media	
Suitable extinguishing media	The product is not flammable. Extinguish with alcohol-resistant foam, carbon dioxide, dry powder or water fog. Use fire-extinguishing media suitable for the surrounding fire.
Unsuitable extinguishing media	Do not use water jet as an extinguisher, as this will spread the fire.
Special hazards arising from the s	substance or mixture
Specific hazards	Containers can burst violently or explode when heated, due to excessive pressure build-up.
Hazardous combustion products	Thermal decomposition or combustion products may include the following substances: Harmful gases or vapors.
Advice for firefighters	
Protective actions during firefighting	Avoid breathing fire gases or vapors. Evacuate area. Keep upwind to avoid inhalation of gases, vapors, fumes and smoke. Ventilate closed spaces before entering them. Cool containers exposed to heat with water spray and remove them from the fire area if it can be done without risk. Cool containers exposed to flames with water until well after the fire is out. If a leak or spill has not ignited, use water spray to disperse vapors and protect men stopping the leak. Avoid discharge to the aquatic environment. Control run-off water by containing and keeping it out of sewers and watercourses. If risk of water pollution occurs, notify appropriate authorities.
Special protective equipment for firefighters	Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing. Standard Firefighter's clothing including helmets, protective boots and gloves will provide a basic level of protection for chemical incidents.
6. Accidental release measures	
Personal precautions, protective e	equipment and emergency procedures
Personal precautions	No action shall be taken without appropriate training or involving any personal risk. Keep unnecessary and unprotected personnel away from the spillage. Wear protective clothing as described in Section 8 of this safety data sheet. Follow precautions for safe handling described in this safety data sheet. Wash thoroughly after dealing with a spillage. Ensure procedures and training for emergency decontamination and disposal are in place. Do not touch or walk into spilled material. Avoid contact with skin and eyes.
Environmental precautions	
Environmental precautions	Avoid discharge into drains or watercourses or onto the ground. Avoid discharge to the aquatic environment.
Methods and material for containn	nent and cleaning up
Methods for cleaning up	Wear protective clothing as described in Section 8 of this safety data sheet. Clear up spills immediately and dispose of waste safely. Small Spillages: Collect spillage. Large Spillages: Absorb spillage with non- combustible, absorbent material. The contaminated absorbent may pose the same hazard as the spilled material. Collect and place in suitable waste disposal containers and seal securely. Label the containers containing waste and contaminated materials and remove from the area as soon as possible. Flush contaminated area with plenty of water. Wash thoroughly after dealing with a spillage. Dangerous for the environment. Do not empty into drains. For waste disposal, see Section 13.
Reference to other sections	For personal protection, see Section 8. See Section 11 for additional information on health hazards. See Section 12 for additional information on ecological hazards. For waste disposal, see Section 13.
7. Handling and storage	
Precautions for safe handling	
Usage precautions	Read and follow manufacturer's recommendations. Wear protective clothing as described in Section 8 of this safety data sheet. Keep away from food, drink and animal feeding stuffs. Handle all packages and containers carefully to minimize spills. Keep container tightly sealed when not in use. Avoid the formation of mists. Suspected of causing cancer. Avoid discharge to the aquatic environment. Do not handle until all safety precautions have been read and understood. Do not handle broken packages without protective equipment. Do not reuse empty containers.

Advice on general occupational hygiene	Wash promptly if skin becomes contaminated. Take off contaminated clothing and wash before reuse. Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Wash at the end of each work shift and before eating, smoking and using the toilet. Change work clothing daily before leaving workplace.
Conditions for safe storage, inclu	ding any incompatibilities
Storage precautions	Store away from incompatible materials (see Section 10). Store locked up. Keep only in the original container. Keep container tightly closed, in a cool, well ventilated place. Keep containers upright. Protect containers from damage. Utilize retaining walls to prevent soil and water pollution in the event of spillage. The storage area floor should be leak-tight, jointless and not absorbent.
Storage class	Miscellaneous hazardous material storage.
Specific end uses(s)	
Specific end use(s)	The identified uses for this product are detailed in Section 1.
8. Exposure controls/Personal pr	otection

### Control parameters

Occupational exposure limits

#### Aluminum Silicate (Kaolin)

Long-term exposure limit (8-hour TWA): ACGIH 2 mg/m<sup>3</sup> respirable fraction A4

Long-term exposure limit (8-hour TWA): OSHA 5 mg/m<sup>3</sup> respirable fraction Long-term exposure limit (8-hour TWA): OSHA 15 mg/m<sup>3</sup> total dust ACGIH = American Conference of Governmental Industrial Hygienists. A4 = Not Classifiable as a Human Carcinogen. OSHA = Occupational Safety and Health Administration.

### Exposure controls

Protective equipment



Appropriate engineering controls	Provide adequate ventilation. Personal, workplace environment or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Use process enclosures, local exhaust ventilation or other engineering controls as the primary means to minimize worker exposure. Personal protective equipment should only be used if worker exposure cannot be controlled adequately by the engineering control measures. Ensure control measures are regularly inspected and maintained. Ensure operatives are trained to minimize exposure.
Eye/face protection	Eyewear complying with an approved standard should be worn if a risk assessment indicates eye contact is possible. Personal protective equipment for eye and face protection should comply with OSHA 1910.133. Unless the assessment indicates a higher degree of protection is required, the following protection should be worn: Tight-fitting safety glasses.
Hand protection	Chemical-resistant, impervious gloves complying with an approved standard should be worn if a risk assessment indicates skin contact is possible. The most suitable glove should be chosen in consultation with the glove supplier/manufacturer, who can provide information about the breakthrough time of the glove material. To protect hands from chemicals, gloves should comply with OSHA 1910.138 and be demonstrated to be impervious to the chemical and resist degradation. Considering the data specified by the glove manufacturer, check during use that the gloves are retaining their protective properties and change them as soon as any deterioration is detected. Frequent changes are recommended.
Other skin and body protection	Appropriate footwear and additional protective clothing complying with an approved standard should be worn if a risk assessment indicates skin contamination is possible.

Hygiene measures	Provide eyewash station and safety shower. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse. Clean equipment and the work area every day. Good personal hygiene procedures should be implemented. Wash at the end of each work shift and before eating, smoking and using the toilet. When using do not eat, drink or smoke. Preventive industrial medical examinations should be carried out. Warn cleaning personnel of any hazardous properties of the product.
Respiratory protection	Respiratory protection complying with an approved standard should be worn if a risk assessment indicates inhalation of contaminants is possible. Ensure all respiratory protective equipment is suitable for its intended use and is NIOSH approved. Check that the respirator fits tightly and the filter is changed regularly. Gas and combination filter cartridges should comply with OSHA 1910.134. Full face mask respirators with replaceable filter cartridges should comply with OSHA 1910.134. Half mask and quarter mask respirators with replaceable filter cartridges should comply with OSHA 1910.134.
Environmental exposure controls	Keep container tightly sealed when not in use. Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

## 9. Physical and chemical properties

Information on basic physical and	chemical properties
Appearance	Colored liquid.
Color	Various colors.
Odor	Slight.
Odor threshold	No information available.
рН	No information available.
Melting point	No information available.
Initial boiling point and range	No information available.
Flash point	Not applicable.
Evaporation rate	No information available.
Evaporation factor	No information available.
Flammability (solid, gas)	Not applicable.
Upper/lower flammability or explosive limits	Not applicable.
Other flammability	Not applicable.
Vapor pressure	No information available.
Vapor density	No information available.
Relative density	No information available.
Bulk density	No information available.
Solubility(ies)	No information available.
Partition coefficient	No information available.
Auto-ignition temperature	No information available.
Decomposition Temperature	No information available.
Viscosity	No information available.
Explosive properties	No information available.
Explosive under the influence of a flame	No

Item Numbers: 30446-4006, 30446-4009

Oxidizing properties	none
10. Stability and reactivity	
Reactivity	See the other subsections of this section for further details.
Stability	Stable at normal ambient temperatures and when used as recommended. Stable under the prescribed storage conditions.
Possibility of hazardous reactions	No potentially hazardous reactions known.
Conditions to avoid	There are no known conditions that are likely to result in a hazardous situation.
Materials to avoid	No specific material or group of materials is likely to react with the product to produce a hazardous situation.
Hazardous decomposition products	Does not decompose when used and stored as recommended. Thermal decomposition or combustion products may include the following substances: Harmful gases or vapors.
11. Toxicological information	
Information on toxicological effects	3
<u>Acute toxicity - oral</u> Summary	Based on available data the classification criteria are not met.
<u>Acute toxicity - dermal</u> Summary	Based on available data the classification criteria are not met.
Acute toxicity - inhalation Summary	Based on available data the classification criteria are not met.
ATE inhalation (dusts/mists mg/l)	
Skin corrosion/irritation Summary	Based on available data the classification criteria are not met.
Serious eye damage/irritation Summary	Based on available data the classification criteria are not met.
Respiratory sensitization Summary	Based on available data the classification criteria are not met.
<u>Skin sensitization</u> Summary	May cause an allergic skin reaction.
<u>Germ cell mutagenicity</u> Summary	Based on available data the classification criteria are not met.
<u>Carcinogenicity</u> Summary	May aquico concer
IARC carcinogenicity	May cause cancer. Contains a substance/a group of substances which may cause cancer. IARC Group 1 Carcinogenic to humans.
Reproductive toxicity Summary	Based on available data the classification criteria are not met.
Specific target organ toxicity - sing	
Summary	Based on available data the classification criteria are not met.
Specific target organ toxicity - repe Summary	eated exposure Causes damage to organs through prolonged or repeated exposure.
Aspiration hazard	
	7/11

Item Numbers: 30446-4006, 30446-4009

Page 7 of 11

Summary	Based on available data the classification criteria are not met.
General information	May cause cancer after repeated exposure. Risk of cancer depends on duration and level of exposure. The severity of the symptoms described will vary dependent on the concentration and the length of exposure.
Inhalation	Prolonged inhalation of high concentrations may damage respiratory system.
Ingestion	May cause sensitization or allergic reactions in sensitive individuals. Gastrointestinal symptoms, including upset stomach. Fumes from the stomach contents may be inhaled, resulting in the same symptoms as inhalation.
Skin Contact	May cause skin sensitization or allergic reactions in sensitive individuals. Prolonged contact may cause dryness of the skin.
Eye contact	May cause temporary eye irritation.
Route of exposure	Ingestion Inhalation Skin and/or eye contact
Target Organs	No specific target organs known.
Medical considerations	Skin disorders and allergies.
12. Ecological information	
Acute aquatic toxicity Summary	Toxic to aquatic life.
Chronic aquatic toxicity Summary	Toxic to aquatic life with long lasting effects.
Persistence and degradability Persistence and degradability	The degradability of the product is not known.
Bioaccumulative potential	
Bio-Accumulative Potential	No data available on bioaccumulation.
Partition coefficient	No information available.
<u>Mobility in soil</u> Mobility	No data available.
Other adverse effects	
Other adverse effects	None known.
13. Disposal considerations	
Waste treatment methods	
General information	The generation of waste should be minimized or avoided wherever possible. Reuse or recycle products wherever possible. This material and its container must be disposed of in a safe way. Disposal of this product, process solutions, residues and by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any local authority requirements. When handling waste, the safety precautions applying to handling of the product should be considered. Care should be taken when handling emptied containers that have not been thoroughly cleaned or rinsed out. Empty containers or liners may retain some product residues and hence be potentially hazardous.
Disposal methods	Do not empty into drains. Dispose of surplus products and those that cannot be recycled via a licensed waste disposal contractor. Waste, residues, empty containers, discarded work clothes and contaminated cleaning materials should be collected in designated containers, labeled with their contents. Incineration or landfill should only be considered when recycling is not feasible.
14. Transport information	

Page 8 of 11

General	For limited quantity packaging/limited load information, consult the relevant modal documentation using the data shown in this section.
UN Number	
UN No. (TDG)	3082
UN No. (IMDG)	3082
UN No. (ICAO)	3082
UN proper shipping name	
Proper shipping name (TDG)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (CONTAINS Zinc Oxide)
Proper shipping name (IMDG)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (CONTAINS Zinc Oxide)
Proper shipping name (ICAO)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (CONTAINS Zinc Oxide)
Transport hazard class(es)	
TDG class	9
TDG label(s)	9
IMDG Class	9
ICAO class/division	9
Transport labels	

Packing group	
TDG Packing Group	
IMDG packing group	

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ICAO	packing	group	

## Environmental hazards

**Environmentally Hazardous Substance** 



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### Special precautions for user

Always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	Not applicable.
15. Regulatory information	

**Regulatory References** 

OSHA Hazard Communication Standard 29 CFR §1910.1200

### US Federal Regulations

SARA Section 302 Extremely Hazardous Substances Tier II Threshold Planning Quantities None of the ingredients are listed.

Item Numbers: 30446-4006, 30446-4009

# CERCLA/Superfund, Hazardous Substances/Reportable Quantities (EPA)

None of the ingredients are listed.

SARA Extremely Hazardous Substances EPCRA Reportable Quantities None of the ingredients are listed.

### SARA 313 Emission Reporting

None of the ingredients are listed.

## CAA Accidental Release Prevention

None of the ingredients are listed.

### FDA - Essential Chemical

None of the ingredients are listed or exempt.

### FDA - Precursor Chemical

None of the ingredients are listed or exempt.

## SARA (311/312) Hazard Categories

Carcinogenicity Respiratory or skin sensitization Specific target organ toxicity (single or repeated exposure)

### **OSHA Highly Hazardous Chemicals** None of the ingredients are listed.

### US State Regulations

Massachusetts "Right To Know" List The following ingredients are listed:

*Aluminum Silicate (Kaolin)* max 15%

*Silicon dioxide* max 30%

## Rhode Island "Right To Know" List

The following ingredients are listed: Aluminum Silicate (Kaolin) max 15%

*Silicon dioxide* max 30%

### Minnesota "Right To Know" List

The following ingredients are listed:

Aluminum Silicate (Kaolin) max 15% Silicon dioxide max 30%

### New Jersey "Right To Know" List

The following ingredients are listed:

Aluminum Silicate (Kaolin) max 15% Silicon dioxide max 30%

### **Pennsylvania "Right To Know" List** The following ingredients are listed:

Revision: 2

*Aluminum Silicate (Kaolin)* max 15%

Silicon dioxide max 30%

### Inventories

### US - TSCA

The following ingredients are listed or exempt:

Aluminum Silicate (Kaolin)

Silicon dioxide

### US - TSCA 12(b) Export Notification

None of the ingredients are listed or exempt.

### 16. Other information

Abbreviations and acronyms used TDG: The transport of dangerous goods act in the safety data sheet

	<ul> <li>IATA: International air transport association.</li> <li>ICAO: Technical instructions for the safe transport of dangerous goods by air.</li> <li>IMDG: International maritime dangerous goods.</li> <li>CAS: Chemical abstracts service.</li> <li>ATE: Acute toxicity estimate.</li> <li>LC<sub>50</sub>: Lethal concentration to 50 % of a test population.</li> <li>LD<sub>50</sub>: Lethal dose to 50% of a test population (median lethal dose).</li> <li>EC<sub>50</sub>: 50% of maximal effective concentration.</li> <li>PBT: Persistent, bioaccumulative and toxic substance.</li> <li>vPvB: Very persistent and very bioaccumulative.</li> </ul>
Classification abbreviations and acronyms	Carc. = Carcinogenicity Skin Sens. = Skin sensitisation STOT RE = Specific target organ toxicity-repeated exposure Aquatic Chronic = Hazardous to the aquatic environment (chronic)
Training advice	Read and follow manufacturer's recommendations. Only trained personnel should use this material.
Revision date	4/25/2021
Revision	2
Supersedes date	11/1/2020
SDS No.	6036
Hazard statements in full	<ul> <li>H302 Harmful if swallowed.</li> <li>H317 May cause an allergic skin reaction.</li> <li>H319 Causes serious eye irritation.</li> <li>H330 Fatal if inhaled.</li> <li>H350 May cause cancer.</li> <li>H350i May cause cancer by inhalation.</li> <li>H351 Suspected of causing cancer.</li> <li>H372 Causes damage to organs through prolonged or repeated exposure.</li> <li>H372 Causes damage to organs (Lungs) through prolonged or repeated exposure.</li> <li>H372 Causes damage to organs (Respiratory system) through prolonged or repeated exposure.</li> <li>H400 Very toxic to aquatic life.</li> <li>H401 Toxic to aquatic life.</li> <li>H410 Very toxic to aquatic life with long lasting effects.</li> <li>H411 Toxic to aquatic life with long lasting effects.</li> </ul>

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.