



Trade name: Marabu Glas Art

00771-XXXX

Version: 1 / US

Date revised: 19.05.2016

Substance number: 130290xxxxx

Replaces Version: 0 / US

Print date: 19.05.16

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Marabu Glas Art

1.2. Relevant identified uses of the substance or mixture and uses advised against

Use of the substance/preparation

Paint

1.3. Details of the supplier of the safety data sheet

Address

Marabu GmbH & Co. KG

Asperger Strasse 4

71732 Tamm

Germany

Telephone no. +49-7141/691-0

Fax no. +49-7141/691-147

Information provided Department product safety

by / telephone

E-mail address of PRSI@marabu.de

person responsible

for this SDS

1.4. Emergency telephone number

(+49) (0)621-60-43333

SECTION 2: Hazards identification ***

2.1. Classification of the substance or mixture

Classification according to OSHA Hazard Communication Standard 29 CFR 1910:1200

Classification according to OSHA Hazard Communication Standard 29 CFR 1910:1200

Flam. Liq. 3 H226

STOT SE 3 H336

2.2. Label elements

Labelling according to OSHA Hazard Communication Standard 29 CFR 1910:1200

Hazard pictograms



Signal word

Warning

Hazard statements

H226

Flammable liquid and vapour.

H336

May cause drowsiness or dizziness.



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Prevention

- P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
- P235 Keep cool.
- P241.1 Use explosion-proof ventilating equipment.
- P242 Use only non-sparking tools.
- P243 Take precautionary measures against static discharge.
- P280 Wear protective gloves/protective clothing/eye protection/face protection.

Response

- P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

Storage/Disposal

- P403+P233 Store in a well-ventilated place. Keep container tightly closed.
- P501.1 Dispose of contents/container to industrial incineration plant.

2.3. Other hazards

No special hazards have to be mentioned.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Chemical characterization

Paint based on alkyd resins and on solvents

Hazardous ingredients

1-Methoxy-2-propanol

CAS No. 107-98-2
 Concentration >= 10 < 50 %

Naphtha (petroleum), hydrotreated heavy

CAS No. 64742-48-9
 Concentration >= 10 < 25 %

2-Butoxyethyl acetate

CAS No. 112-07-2
 Concentration >= 1 < 10 %

Hexanoic acid, 2-ethyl-, zinc salt, basic

CAS No. 85203-81-2
 Concentration >= 0,1 < 1 %

Shades 407, 421, 461 and 463 contain additionally:

C.I.Solvent Yellow 79

CAS No. 85455-32-9
 Concentration >= 1 < 10 %



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SECTION 4: First aid measures

4.1. Description of first aid measures

General information

In all cases of doubt, or when symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person. If unconscious place in recovery position and seek medical advice.

After inhalation

Remove to fresh air, keep patient warm and at rest. If breathing is irregular or stopped, administer artificial respiration.

After skin contact

Remove contaminated clothing. Wash skin thoroughly with soap and water or use recognised skin cleanser. Do NOT use solvents or thinners.

After eye contact

Remove contact lenses, irrigate copiously with clean, fresh water, holding the eyelids apart for at least 10 minutes and seek immediate medical advice.

After ingestion

If accidentally swallowed rinse the mouth with plenty of water (only if the person is conscious) and obtain immediate medical attention. Keep at rest. Do NOT induce vomiting.

4.2. Most important symptoms and effects, both acute and delayed

Until now no symptoms known so far.

4.3. Indication of any immediate medical attention and special treatment needed

Hints for the physician / treatment

Treat symptomatically

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Recommended: alcohol resistant foam, CO₂, powders, water spray/mist, Not be used for safety reasons: water jet

5.2. Special hazards arising from the substance or mixture

In the event of fire the following can be released: Carbon dioxide (CO₂); Carbon monoxide (CO); dense black smoke; Nitrogen oxides (NO_x)

5.3. Advice for firefighters

Special protective equipment for fire-fighting

Cool closed containers exposed to fire with water. Do not allow run-off from fire fighting to enter drains or water courses.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Exclude sources of ignition and ventilate the area. Avoid breathing vapours. Refer to protective measures listed in Sections 7 and 8.

6.2. Environmental precautions

Do not allow to enter drains or waterways. If the product contaminates lakes, rivers or sewage, inform appropriate authorities in accordance with local regulations.



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6.3. Methods and material for containment and cleaning up

Contain and collect spillage with non-combustible absorbent materials, e.g. sand, earth, vermiculite, diatomaceous earth and place in container for disposal according to local regulations (see section 13). Clean preferably with a detergent - avoid use of solvents.

6.4. Reference to other sections

Information regarding Safe handling, see Section 7. Information regarding personal protective measures, see Section 8. Information regarding waste disposal, see Section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

Prevent the creation of flammable or explosive concentrations of vapour in air and avoid vapour concentration higher than the occupational exposure limits. In addition, the product should only be used in areas from which all naked lights and other sources of ignition have been excluded. Electrical equipment should be protected to the appropriate standard. Mixture may charge electrostatically: always use earthing leads when transferring from one container to another. Operators should wear anti-static footwear and clothing and floors should be of the conducting type. Isolate from sources of heat, sparks and open flame. No sparking tools should be used. Avoid skin and eye contact. Avoid the inhalation of particulates and spray mist arising from the application of this mixture. Smoking, eating and drinking shall be prohibited in application area. For personal protection see Section 8. Never use pressure to empty: container is not a pressure vessel. Always keep in containers of same material as the original one. Comply with the health and safety at work laws. Do not allow to enter drains or water courses.

Advice on protection against fire and explosion

Vapours are heavier than air and may spread along floors. Vapours may form explosive mixtures with air.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Electrical installations/working materials must comply with the local applied technological safety standards. Storage rooms in which filling operations take place must have a conducting floor. Store in accordance with national regulation

Hints on storage assembly

Store away from oxidising agents, from strongly alkaline and strongly acid materials.

Further information on storage conditions

Observe label precautions. Store between 15 and 30 °C in a dry, well ventilated place away from sources of heat and direct sunlight. Keep container tightly closed. Keep away from sources of ignition. No smoking. Prevent unauthorised access. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

7.3. Specific end use(s)

Paint



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SECTION 8: Exposure controls/personal protection ***

8.1. Control parameters

Exposure limit values ***

1-Methoxy-2-propanol

List	ACGIH		
Type	TLV		
Value		50	ppm(V)
Short term exposure limit		100	ppm(V)
Status: 2014;	Remarks: Eye & URT irr		

2-Butoxyethyl acetate

List	ACGIH		
Type	TLV		
Value		20	ppm(V)
Status: 2014;	Remarks: Hemolysis		
List	HTP		
Value		900	ppm(V)
Short term exposure limit		1200	
Maximum limit value:	ppm		

8.2. Exposure controls

Exposure controls

Provide adequate ventilation. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations of particulates and solvent vapour below the OEL, suitable respiratory protection must be worn.

Respiratory protection

If workers are exposed to concentrations above the exposure limit they must use appropriate, certified respirators. Full mask, filter A

Hand protection

There is no one glove material or combination of materials that will give unlimited resistance to any individual or combination of chemicals.

For prolonged or repeated handling nitrile rubber gloves with textile undergloves are required.

The breakthrough time must be greater than the end use time of the product.

The instructions and information provided by the glove manufacturer on use, storage, maintenance and replacement must be followed.

Gloves should be replaced regularly and if there is any sign of damage to the glove material.

Always ensure that gloves are free from defects and that they are stored and used correctly.

The performance or effectiveness of the glove may be reduced by physical/ chemical damage and poor maintenance.

Barrier creams may help to protect the exposed areas of the skin, they should however not be applied once exposure has occurred.

Eye protection

Use safety eyewear designed to protect against splash of liquids.

Body protection

Cotton or cotton/synthetic overalls or coveralls are normally suitable.



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SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Form	Liquid		
Colour	coloured		
Odour	solvent-like		
Odour threshold			
Remarks	No data available		
pH value			
Remarks	Not applicable		
Melting point			
Remarks	not determined		
Freezing point			
Remarks	not determined		
Initial boiling point and boiling range			
Value	appr. 120		°C
Pressure	1.013	hPa	
Source	Literature value		
Flash point			
Value	48		°C
Method	ASTM D 6450 (CCCFP)		
Evaporation rate (ether = 1) :			
Remarks	not determined		
Flammability (solid, gas)			
Not applicable			
Upper/lower flammability or explosive limits			
Lower explosion limit	appr. 0,7		%(V)
Upper explosion limit	appr. 13,7		%(V)
Source	Literature value		
Vapour pressure			
Value	appr. 8		hPa
Temperature	20	°C	
Method	calculated		
Vapour density			
Remarks	not determined		
Density			
Value	0,99		g/cm ³
Temperature	20	°C	
Method	DIN EN ISO 2811		
Solubility in water			
Remarks	partially miscible		
Partition coefficient: n-octanol/water			
Remarks	Not applicable		
Ignition temperature			
Value	appr. 200		°C
Source	Literature value		



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Efflux time

Value < 40 to 75 s
 Temperature 20 °C
 Method DIN 53211 4 mm

Explosive properties

evaluation no

Oxidising properties

evaluation None known

9.2. Other information

Other information

The physical specifications are approximate values and refer to the used safety relevant component(s).

SECTION 10: Stability and reactivity

10.1. Reactivity

No hazardous reactions when stored and handled according to prescribed instructions.

10.2. Chemical stability

Stable under recommended storage and handling conditions (see section 7).

10.3. Possibility of hazardous reactions

Keep away from oxidising agents, strongly alkaline and strongly acid materials in order to avoid exothermic reactions.

10.4. Conditions to avoid

When exposed to high temperatures may produce hazardous decomposition products.

10.5. Incompatible materials

No hazardous reactions when stored and handled according to prescribed instructions.

10.6. Hazardous decomposition products

See chapter 5.2 (Firefighting measures - Special hazards arising from the substance or mixture).

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute oral toxicity

ATE > 2.000 mg/kg
 Method calculated value (Appendix A TO §1910.1200)

Acute oral toxicity (Components)

1-Methoxy-2-propanol

Species rat
 LD50 5200 mg/kg

Acute dermal toxicity

ATE > 2.000 mg/kg
 Method calculated value (Appendix A TO §1910.1200)

Acute dermal toxicity (Components)

1-Methoxy-2-propanol

Species rabbit
 LD50 14000 mg/kg



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Acute inhalational toxicity

ATE	>	20	mg/l
Administration/Form		Vapors	
Method		calculated value (Appendix A TO §1910.1200)	
ATE	>	5	mg/l
Administration/Form		Dust/Mist	
Method		calculated value (Appendix A TO §1910.1200)	

Aspiration hazard

No special hazards have to be mentioned.

Experience in practice

Exposure to component solvents vapours concentration in excess of the stated occupational exposure limit may result in adverse health effects such as mucous membrane and respiratory system irritation and adverse effects on kidney, liver and central nervous system. Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and in extreme cases, loss of consciousness. Solvents may cause some of the above effects by absorption through the skin. Repeated or prolonged contact with the mixture may cause removal of natural fat from the skin resulting in non-allergic contact dermatitis and absorption through the skin. The liquid splashed in the eyes may cause irritation and reversible damage. Ingestion may cause nausea, diarrhoea and vomiting. This takes into account, where known, delayed and immediate effects and also chronic effects of components from short-term and long-term exposure by oral, inhalation and dermal routes of exposure and eye contact.

Other information

There are no data available on the mixture itself.

The mixture has been assessed following the additivity method described in Appendix A TO §1910.1200 and classified for toxicological hazards accordingly.

SECTION 12: Ecological information**12.1. Toxicity****General information**

There are no data available on the mixture itself. Do not allow to enter drains or water courses.

12.2. Persistence and degradability**General information**

There are no data available on the mixture itself.

12.3. Bioaccumulative potential**General information**

There are no data available on the mixture itself.

12.4. Mobility in soil**General information**

There are no data available on the mixture itself.

12.5. Results of PBT and vPvB assessment**General information**

There are no data available on the mixture itself.

12.6. Other adverse effects**General information**

There are no data available on the mixture itself.



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SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal recommendations for the product

Do not allow to enter drains or water courses.

Wastes and emptied containers should be classified in accordance with relevant national regulation.

The European Waste Catalogue classification of this product, when disposed of as waste is

If this product is mixed with other wastes, the original waste product code may no longer apply and the appropriate code should be assigned.

For further information contact your local waste authority.

Disposal recommendations for packaging

Using information provided in this safety data sheet, advice should be obtained from the relevant waste authority on the classification of empty containers.

Empty containers must be scrapped or reconditioned.

Not emptied containers are hazardous waste.

SECTION 14: Transport information

Ground transport DOT

14.1. UN number

UN 1263

14.2. UN proper shipping name

PAINT

14.3. Transport hazard class(es)

Class 3

Label 3

14.4. Packing group

Packing group III

Special provision 640E

Limited Quantity 5 I

Transport category 4

14.5. Environmental hazards

-

Marine transport IMDG/GGVSee

14.1. UN number

UN 1263

14.2. UN proper shipping name

PAINT

14.3. Transport hazard class(es)

Class 3

14.4. Packing group

Packing group III

14.5. Environmental hazards

no

Air transport ICAO/IATA

14.1. UN number

UN 1263

14.2. UN proper shipping name

PAINT

14.3. Transport hazard class(es)

Class 3



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14.4. Packing group

Packing group III

14.5. Environmental hazards

-

Information for all modes of transport**14.6. Special precautions for user**

Transport within the user's premises:

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.

Other information**14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code**

no

SECTION 15: Regulatory information**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****Regulatory status**

This product has been evaluated by a toxicologist and labelled for acute and chronic health hazards in accordance with the Labelling of Hazardous Art Materials Regulation and Federal Regulation 16 CFR 1500.14 of the Federal Hazardous Substances Act. Label elements required:

WARNING! FLAMMABLE! HARMFUL OR FATAL IF SWALLOWED!

Contains: PETROLEM DISTILLATES, METHOXY PROPANOL, DIETHYLENE GLYCOL, MONOBUTYL ETHER ACETATE.

Vapor Harmful. May affect the brain or nervous system causing dizziness, headache or nausea. Causes eye and skin irritation. Avoid heat and flame. Use ventilation. Do not breathe vapors. Avoid eye and skin contact.

Wash thoroughly after handling. If swallowed, do not induce vomiting.

Get medical attention immediately. Eye contact: Immediately flush with

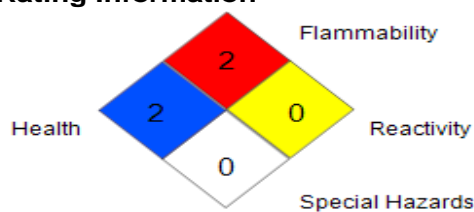
water for 15 min. Call a physician. Skin contact: Wash with soap and water.

KEEP OUT OF THE REACH OF CHILDREN.

Conforms to ASTM D-4236

TSCA Inventory

All components are contained in the TSCA inventory or exempted.

NFPA Rating Information**HMIS® Rating Information**

Health	1
Flammability	2
Physical Hazard	0
Personal Protection	E



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SECTION 16: Other information

Supplemental information

Relevant changes compared with the previous version of the safety data sheet are marked with: ***

This information is based on our present state of knowledge. However, it should not constitute a guarantee for any specific product properties and shall not establish a legally valid relationship.

The information in this Safety Data Sheet is based on the present state of knowledge and current legislation.

It provides guidance on health, safety and environmental aspects of the product and should not be construed as any guarantee of technical performance or suitability for particular applications.

The product should not be used for purposes other than those shown in Section 1 without first referring to the supplier and obtaining written handling instructions.

As the specific conditions of use of the product are outside the supplier's control, the user is responsible for ensuring that the requirements of relevant legislation are complied with.

The information contained in this safety data sheet does not constitute the user's own assessment of workplace risks, as required by other health and safety legislation.