

SAFETY DATA SHEET



According to directive 1907/2006/EC, 2020/878

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Version 3.0

Revision date: 17-09-2021

Print date: 13-10-2022

Trade name: Apoxie® Sculpt, Super White Apoxie® - (Part A; all colours and versions)

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

1.1 Product identification:

Product name: Apoxie® Sculpt, Super White Apoxie® - (Part A; all colours and versions)

General use: Modelling clay

Product description: Putty-like material (part A of a two-part system).

Form of product: Two-part system. Part A contains base material, resin and dye (if present).
Parts A and B are intended to be mixed 50:50 by weight.

UFI code: 3JPV-GOSW-100E-Q7RS

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

Relevant identified uses: The Apoxie® Sculpt two-piece system as designed in the quantities provided is safe for normal adult use as a modelling clay. Not intended for use by children without adult supervision.

PRODUCT IN CURED FORM COMPLIES WITH INTERNATIONAL SAFETY STANDARD ASTM D4236

Uses not recommended: None

1.3 Details of the supplier of the safety data sheet:

Responsible distributor : ASSYST bvba / A.S.O.W. bvba
Hellegatstraat 13a
2590 Berlaar
Belgium
Tel: +32 495 50 61 14 / +32 496 83 70 27
Website: www.assyst.org / www.artsuppliesonweb.com
Email: ao@assyst.org / vera.opsommer@assyst.org

1.4 Emergency phone number:

For Belgium: Call the **Poison Control Center (070 245 245 - free)**, if not available: **02 264 96 30** (normal rate) or your doctor. In life-threatening situations, always call the European emergency number **112**.

NHS 24 Direct: For help from a GP, visit your GP surgery's website, use an online service to contact your GP, or call the surgery. **For urgent medical help**, use the NHS 111 online service, or **call 111** if you are unable to get help online. **For life-threatening emergencies, call 999** for an ambulance. There is more information about getting medical help on the NHS website.

SECTION 2: Hazard identification

2.1 Classification of the substance or mixture:

Classification according to Directive (EC) No 1272/2008 and its amendments.

According to the Globally Harmonised Standard for Classification and Labelling (GHS), this product is considered hazardous due to the possibility of skin and eye irritation.

Skin irritation, category 1B - skin allergy

Eye irritation, category 2

Hazardous to the aquatic environment, category 2 - chronic

Adverse physicochemical effects and adverse effects on human health and the environment:

No additional data available.

2.2 Label elements:

Labelling according to Regulation (EC) No 1272/2008 [CLP/GHS]:

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Hazard pictograms:

Signal word:

Warning

Indications of danger:

H317 - May cause allergic skin reactions.

H319 - Causes severe eye irritation.

H411 - Toxic to aquatic organisms with long-lasting effects.

Safety recommendations:

Indications of danger:

P101 - If medical advice is required, keep the container or label handy.

P102 - Keep out of the reach of children.

P103 - Read the label before use.

Prevention:

P261 - Avoid inhalation of dust.

P280 - Wear protective gloves when joining parts A and B. Wear at least an N95 dust mask when sanding the cured product.

P273 - Prevent from entering the environment.

Answer:

P302 + 352 - After contact with skin, wash with plenty of water.

P333 + P313 - In case of skin irritation or rash, seek medical advice.

P305 + P351 + P338 - In case of contact with eyes: Rinse carefully with water for several minutes. If possible, remove existing contact lenses. Continue rinsing.

P337 + P313 - If eye irritation persists: consult a doctor.

P391 - Collect spilt material.

Storage/disposal:

P501 - Dispose of contents/container in accordance with public waste disposal or recycling facility.

2.3 Other hazards:

This substance/mixture does not contain any components that can be considered persistent, bioaccumulative and toxic (PBT) or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Ecological information:

The substance/mixture does not contain any components believed to have endocrine-disrupting properties according to REACH article 57(f) or Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at level 0.1% or higher.

Toxicological information:

The substance/mixture does not contain any components believed to have endocrine-disrupting properties according to REACH article 57(f) or Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at level 0.1% or higher.

SECTION 3: Composition and information on ingredients

3.1 Substances:

Chemical name	CAS number EC number REACH Registration number	Layout (Regulation (EC) No 1272/008)	Concentration (%)
*Talc	14807-96-6 238-877-9 01-2120140278-58-0011	Acute Tox. 4 - H332; Eye Irrit. 2 - H319	11 - 66
*Oxirane, 2,2'-4-butylidene-bisphenylenoxymethylene	25085-99-8 607-537-5 -	Aquatic Chronic 2 - H411; Eye Irrit. 2 - H319; Skin Sens. 1 - H317	27 - 34
*Chlorite Group Minerals	1318-59-8 215-285-9 -	No classified hazards	0 - 3.5

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***Quartz (SiO ₂)	14808-60-7 238-878-4 -	Acute Tox. 4 - H332; Eye Irrit. 2 - H319	0 - 1,0
*Titanium dioxide	13463-67-7 236-675-5 -	N/A; not in nano form	0 - 52
**Carbon black	1333-86-4 215-609-9 -	N/A; not in nano form	0 - 0,7
Mixture of oils	8042-47-5 232-455-8 -	Aspiration hazard	1 - 1,7
**Aluminium	7429-90-5 231-072-3 -	Hazard not applicable to product	0 - 8
*Aza-annulene pigments	1328-53-6 147-14-8 215-524-7 205-685-1 -	No classified hazards	0 - 3
**Diketo-pyrro-pyrrole pigments	84632-65-5 54660-00-3 617-603-5 611-183-7 -	No classified hazards	0 - 3
*Azo pigments	6358-31-2 228-768-4 -	No classified hazards	0 - 2
**Ultramarine pigment	57455-37-5 611-533-9 -	No classified hazards	0 - 1,5
*Iron oxide	1309-37-1 51274-00-1 215-168-2 257-098-5 -	No classified hazards	0 - 2
	1317-61-9 215-277-5 -	Self-heating	

* Trade secret

** Varies according to colour

*** May be present as trace element in one or more ingredients

SECTION 4: First aid measures

4.1 Description of first-aid measures:

General first aid measures:

Never give anything by mouth to an unconscious person.
If you feel unwell, consult a doctor. Show the label where possible.

First-aid measures after inhalation:

If symptoms occur, go outside and ventilate the area.

First-aid measures after skin contact:

After handling, wash hands with soap and water.
If irritation persists or other symptoms occur, consult a doctor.

First-aid measures after eye contact:

Remove the contact lens (if any).
Immediately flush eyes with plenty of clean water for at least 15 minutes.
If necessary, gently hold the eyelid open during the rinse.
If irritation persists, consult a doctor.

First-aid measures after ingestion:

No major route of exposure.
If swallowed, do not induce vomiting.
If discomfort or other symptoms persist, seek medical attention and show label and safety data sheet.

Emergency room self-protection:

None required.

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4.2 Main acute and delayed symptoms and effects:

Symptoms/injuries:

Under normal conditions of use, it is not expected to pose a significant hazard.

Symptoms/injuries after inhalation:

Not expected to be a primary exposure route unless sanded after curing.

Dust is not expected to be measurable, given the average size of items made with this product.

Symptoms/injuries after skin contact:

Skin contact with unreacted two-part materials is the greatest hazard.

The ingredients are known sensitizers.

Routine use without hand protection can lead to redness, irritation, dermatitis.

Symptoms/injuries after eye contact:

Not expected to be a primary route of exposure.

Sanding finished parts may release dust that is an abrasive eye hazard.

Symptoms/injuries after swallowing:

Ingestion is not considered a primary route of exposure.

If swallowed, the material can cause blockage.

Seek medical attention after ingestion if you feel unwell.

4.3 Indication of immediate medical attention and special treatment required:

Notes for the doctor:

Uncured product may cause allergic reactions.

Special treatment:

No specific treatment suggested.

SECTION 5: Fire-fighting measures

5.1 Extinguishing media:

Suitable extinguishing agents:

Water spray or fine mist; dry chemical fire extinguishers; carbon dioxide fire extinguishers; foam; alcohol-resistant foam (ATC type).

Unsuitable extinguishing media:

None known.

5.2 Special hazards arising from the substance or mixture:

Hazardous combustion products:

Carbon dioxide, carbon monoxide.

5.3 Advice for firefighters:

In the event of a fire, wear full protective clothing and a NIOSH-approved self-contained breathing apparatus with a full face piece that operates on pressure requirements or another positive pressure mode.

For small outdoor fires, which can be easily extinguished with a portable fire extinguisher, the use of protective equipment is usually not necessary.

Additional information:

Uncured A consists mainly of inorganic constituents in a wet matrix and is not expected to promote combustion.

The packaging is flammable but does not pose a major fire hazard.

SECTION 6: Measures in case of accidental release of the substance or mixture

6.1 Personal precautions, protective equipment and emergency procedures:

Other than emergency services:

Protective equipment:

Protective gloves for accidental release of uncured material.

Emergency measures:

None required.

Emergency services:

Personal protective equipment:

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Protective gloves when handling uncured material.

6.2 Environmental precautions:

Not expected; the packs are no larger than 908 grams and the material is a solid that sticks together to form a solid ball.

A leak should be fully recoverable.

Material is expected to sink to the bottom of a water body and may or may not be salvaged as intact solid material.

6.3 Methods and materials for containment and cleaning:

For containment:

Waste material can be put in a polythene waste bag.

Cleaning:

Waste material is a solid.

Scrape, shovel or collect the material by other means.

Dispose of as solid waste.

Waste is not hazardous unless it is mixed with hazardous substance(s).

Unreacted part A has a putty-like consistency with limited solubility in water.

If unused product and/or finished material is spilled into a water body, it will sink to the bottom and look like rock/rock in the water body.

The extent of packaging is not expected to generate substantial waste in a water body.

Other information:

None.

6.4 Reference to other sections:

Additional information:

Section 8.

SECTION 7: Handling and storage:

7.1 Precautions for safe handling of the substance or mixture

Protective measures:

Store at ambient temperature (20-23°C) and ambient pressure.

Advice on safe use:

Store in original sealed container at ambient temperature (below 49°C) in a dry place.

Keep containers sealed.

Keep out of direct sunlight and in a dry place.

Protect the package from physical damage.

The product is freeze-thaw stable.

Preventive fire protection measures:

None required.

Measures to prevent aerosol and dust formation:

None required.

Measures to protect the environment:

None required.

Advice on general hygiene measures in the workplace:

Wear protective gloves (nitrile is an acceptable glove material in the usual thicknesses).

Wash hands thoroughly after working with the uncured product.

When sanding manually or mechanically, wear N95 respiratory protection or better to avoid exposure to inhalable dust.

7.2 Conditions for safe storage, including incompatibilities:

Technical measures and storage conditions:

Packaging materials:

Store in original sealed container at ambient temperature (below 49°C) in a dry place.

Keep containers sealed.

Keep out of direct sunlight and in a dry place.

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Protect the package from physical damage.

The product is freeze-thaw stable.

Requirements for storage rooms and vessels:

Hints on storage:

Storage class:

Non-flammable solid.

Substances to avoid:

Strong acids and bases.

Temperatures higher than 200°C.

7.3 Specific end use:

Apoxie Sculpt Part A is one part of a two-part epoxy-based system intended to be combined into a cured hard product.

Part A contains the unreacted diglycidyl ether of bisphenol A.

This product, when combined with Part B, forms a hard material used for making jewellery, pottery, repair material, etc. and is inert when combined.

SECTION 8: Exposure controls/personal protection measures

8.1 Control parameters:

NOTE:

This information applies only to Part A of a two-piece system intended for combined use.

Chemical	Talc (CAS No 14807-96-6)		
Country	Limit value	Number	Comments
Austria		2.0 mg/m ³	respirable aerosol
Belgium	Limit value	2.0 mg/m ³	respirable aerosol; asbestos-free
Bulgaria	OEL TWA		
France	VME		
Italy, Portugal, USA, ACGIH limit	ACGIH TLV		
Germany	DFG DAK	2.0 mg/m ³	respirable aerosol
Latvia	OEL TWA	4.0 mg/m ³	
Spain	VLA-ED	2.0 mg/m ³	
Czech Republic	Expzicni limity		
Denmark	Graensevaerdie (long-furred)		
Finland	HTP-arvo	0.5 fibres/cm ³	
Hungary	AK-ertek		
Ireland	OEL TWA	10.0 mg/m ³	respirable aerosol; asbestos-free
Lithuania	IRV		
Poland	NDS		
Romania	OEL TWA		
Sweden	NVG	2.0 mg/m ³	respirable aerosol
Portugal	OEL TWA		

Chemical	Crystalline silica (CAS No 14808-60-7)		
Country	Limit value	Number	Comments
Austria		0.15 mg/m ³	respirable aerosol
Belgium	Limit value	0.1 mg/m ³	
Bulgaria	OEL TWA	0.07 mg/m ³	
France	VME	0.1 mg/m ³	respirable aerosol
Italy, Portugal, USA, ACGIH limit	ACGIH TLV	0.05 mg/m ³	ACGIH TLV of 0.025 mg/m ³ is also used
Germany	DFG DAK	0.05 mg/m ³	Evaluation criterion reference value
Latvia	OEL TWA		
Spain	VLA-ED	0.1 mg/m ³	Respirable fraction
Czech Republic	Expzicni limity	0.1 mg/m ³	
Denmark	Graensevaerdie (long-furred)	0.3 mg/m ³	Respirable aerosol
Finland	HTP-arvo	0.05 mg/m ³	Respirable fraction
Hungary	AK-ertek	0.15 mg/m ³	Respirable aerosol

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Ireland	OEL TWA	0.1 mg/m ³	Respirable fraction
Lithuania	IRV	0.1 mg/m ³	
Poland	NDS	0.1 mg/m ³	
Romania	OEL TWA	0.1 mg/m ³	
Sweden	NVG	0.1 mg/m ³	Respirable fraction
Portugal	OEL TWA	0.025 mg/m ³	

Chemical	Titanium dioxide (CAS No 13463-67-7)		
Country	Limit value	Number	Comments
Austria			
Belgium	Limit value	10 mg/m ³	inhalation; no asbestos; <1% crystalline silica
Bulgaria	OEL TWA		
France	VME	11 mg/m ³	
Italy, Portugal, USA, ACGIH limit	ACGIH TLV		
Germany	DFG DAK	0.3 mg/m ³	except ultrafine particles; respirable fraction
Latvia	OEL TWA	10 mg/m ³	
Spain	VLA-ED	10 mg/m ³	
Czech Republic	Expzicni limity		
Denmark	Graensevaerdie (long-furred)	6 mg/m ³	
Finland	HTP-arvo		
Hungary	AK-ertek		
Ireland	OEL TWA	10 mg/m ³	Respirable fraction
Lithuania	IRV		
Poland	NDS	10 mg/m ³	
Romania	OEL TWA	10 mg/m ³	
Sweden	NVG	5 mg/m ³	
Portugal	OEL TWA		

Chemical	Black carbon (CAS No 1333-86-4)		
Country	Limit value	Number	Comments
Austria			
Belgium	Limit value	3 mg/m ³	
Bulgaria	OEL TWA		
France	VME	3.5 mg/m ³	
Italy, Portugal, USA, ACGIH limit	ACGIH TLV	3 mg/m ³	
Germany	DFG DAK		
Latvia	OEL TWA		
Spain	VLA-ED	3.5 mg/m ³	
Czech Republic	Expzicni limity		
Denmark	Graensevaerdie (long-furred)	3.5 mg/m ³	
Finland	HTP-arvo	3.5 mg/m ³	
Hungary	AK-ertek		
Ireland	OEL TWA	3.5 mg/m ³	
Lithuania	IRV		
Poland	NDS		
Romania	OEL TWA		
Sweden	NVG	3 mg/m ³	
Portugal	OEL TWA		

Chemical	Mixture of oils (CAS No 8042-47-5)		
Country	Limit value	Number	Comments
Austria			
Belgium	Limit value		
Bulgaria	OEL TWA		
France	VME		
Italy, Portugal, USA, ACGIH limit	ACGIH TLV	5 mg/m ³	

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Germany	DFG DAK	5 mg/m ³	respirable fraction
Latvia	OEL TWA		
Spain	VLA-ED		
Czech Republic	Expzicni limity		
Denmark	Graensevaerdie (long-furred)		
Finland	HTP-arvo		
Hungary	AK-ertek		
Ireland	OEL TWA		
Lithuania	IRV		
Poland	NDS		
Romania	OEL TWA	5 mg/m ³	
Sweden	NVG		
Portugal	OEL TWA		

Chemical	Aluminium metal (CAS no. 7429-90-5)		
Country	Limit value	Number	Comments
Austria		10 mg/m ³	Respirable fraction
Belgium	Limit value		
Bulgaria	OEL TWA		
France	VME	10 mg/m ³	Respirabel aerosol
Italy, Portugal, USA, ACGIH limit	ACGIH TLV	15 mg/m ³	total
Germany	DFG DAK	4 mg/m ³	Respirabel aerosol
Latvia	OEL TWA	2 mg/m ³	
Spain	VLA-ED	10 mg/m ³	Respirabel aerosol
Czech Republic	Expzicni limity		
Denmark	Graensevaerdie (long-furred)	5 mg/m ³	Respirabel aerosol
Finland	HTP-arvo		
Hungary	AK-ertek	6 mg/m ³	respirable aerosol
Ireland	OEL TWA	1 mg/m ³	Respirable fraction
Lithuania	IRV		
Poland	NDS		
Romania	OEL TWA		
Sweden	NVG		
Portugal	OEL TWA		

Chemical	Iron oxide (CAS No 1317-61-9; 51274-00-1)		
Country	Limit value	Number	Comments
Austria			
Belgium	Limit value		
Bulgaria	OEL TWA		
France	VME		
Italy, Portugal, USA, ACGIH limit	ACGIH TLV	5 mg/m ³	
Germany	DFG DAK		
Latvia	OEL TWA		
Spain	VLA-ED		
Czech Republic	Expzicni limity		
Denmark	Graensevaerdie (long-furred)		
Finland	HTP-arvo		
Hungary	AK-ertek		
Ireland	OEL TWA		
Lithuania	IRV		
Poland	NDS		
Romania	OEL TWA		
Sweden	NVG		
Portugal	OEL TWA		

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DNEL / PNEC values

Derived no-effect exposure/predicted no-effect concentration

(Derived dose without effect / predicted concentration without effect)

Epoxy resin - CAS 25068-38-6

DNEL	Mode	Duration	Operations	Value
Industry	Dermal	Short term	Systemic	8.3 mg/kg/day
Industry	Inhalation	Short term	Systemic	12.3 mg/kg/m ³
Industry	Dermal	Long-term	Systemic	8.3 mg/kg/day
Industry	Inhalation	Long-term	Systemic	12.3 mg/kg/m ³
Consumer	Dermal	Short term	Systemic	3.6 mg/kg/day
Consumer	Inhalation	Short term	Systemic	0.75 mg/m ³
Consumer	Oral	Short term	Systemic	0.75 mg/kg/day
Consumer	Dermal	Long-term	Systemic	3.6 mg/kg/day
Consumer	Inhalation	Long-term	Systemic	0.75 mg/m ³

PNEC	Value
Freshwater	3 mg/l
Seawater	0.3 mg/l
Sediment (freshwater)	0.5 mg/l
Sediment (seawater)	0.5 mg/l
Temporary release	0.013 mg/l

Black carbon - CAS No 1333-86-4

DNEL	Mode	Duration	Operations	Value
Industry	Inhalation		Local	0.5 mg/m ³
Industry	Inhalation		Systemic	mg/m ³

Mixture of oils CAS No 8042-47-5

DNEL	Mode	Duration	Operations	Value
Industry	Inhalation		Systemic	164.56 mg/m ³

Mixture test data:

Apoxie® Sculpt was tested for leachability of bisphenol A from the cured material.

Calculated dermal exposures based on leaching data were within the California Proposition 65 guideline of 3 micrograms per day for leaching and 1.13 micrograms per day for the wiping procedure.

8.2 Exposure control measures:

Appropriate engineering control equipment:

None required.

Eye/face protection:

None required.

Eye irritation will not occur unless it enters the eyes via hand contact.

Skin protection:

Disposable nitrile powder-free gloves minimum 3 mm thickness.

Respiratory protection:

N95 dust mask when sanding cured material.

Thermal hazards:

Not applicable to the material.

Monitoring environmental exposure:

Store in original container, seal container after removing applicable quantities.

Do not store near heat.

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SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties:

Vapour pressure:	Not applicable
Specific gravity:	unknown
Vapour density:	not applicable
Evaporation rate:	not applicable
Freezing point:	Freeze/thaw stable
Odour:	light
Appearance: depending	on the chosen colour
Physical state:	solid
Flammable range:	not applicable
Solubility in water:	not noticeable
pH value:	neutral
Boiling point:	not applicable
Viscosity:	putty-like
Flash point:	not applicable

9.2 Other information

Explosives:	Not applicable
Flammable gases:	Not applicable
Flammable aerosols:	Not applicable
Oxidising gases:	Not applicable
Gases under pressure:	Not applicable
Flammable liquids:	Not applicable
Flammable solids:	Not applicable
Self-reactive substances:	Not applicable
Pyrophoric liquids:	Not usable
Pyrophoric solids:	Not applicable
Substances liable to self-heat:	Not applicable
Oxidising liquids:	Not applicable
Oxidising solids:	Not applicable
Organic peroxides:	Not applicable
Metal corrosion:	Not applicable

SECTION 10: Stability and reactivity

10.1 Reactivity:

Part A is designed to interact with Part B.

Part A, if combined with other materials, can react with them.

Non-reactive after parts A and B are combined.

10.2 Chemical stability:

Part A is stable if kept in its original packaging and not mixed with other materials.

10.3 Possible hazardous reactions:

Parts A and B will not undergo dangerous reactions if kept in their packaging and not mixed with other materials.

Epoxy components are designed to react with each other.

Mixing with other materials can lead to dangerous situations, depending on what is mixed with it.

10.4 Conditions to avoid:

Avoid combining Part A with materials other than Part B according to the manufacturer's instructions.

Avoid contact with strong acids or bases and temperatures higher than 200°C.

10.5 Incompatible materials:

Strong acids, or bases, and oxidising agents.

10.6 Hazardous decomposition products:

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Carbon dioxide, carbon monoxide, nitrogen oxides and organic compounds, depending on the nature of decomposition.

SECTION 11: Toxicological information**11.1 Information on toxicological effects:**

No information on the mixture. Information on the ingredients is given below.

Toxicity in animals:

Component	Acute	test value	Species
Epoxy resin	LD50 oral	>15,000 mg/kg	rat
Epoxy resin	LD50 dermal	23,000 mg/kg	rabbit
Triethylenetetramine	LD50 oral	>5,000 mg/kg	rat
Triethylenetetramine	LD50 dermal>	5,000 mg/kg	rabbit
Mixture of oilsL	D50 oral	>5,000 mg/kg	rat
Mixture of oils	LC50 inhalation	> 5 mg/kg - 4 hours	rat
Mixture of oils	LD50 dermal	> 2,000 mg/kg	rabbit
Titanium dioxide	LD50 oral	>5,000 mg/kg	rat
Titanium dioxide	LC50 inhalation	>6.82 mg/l - 4 hours	rat
Carbon black	LD50 oral	>8,000 mg/kg	rat

Other information:**Skin corrosion/irritation:**

Epoxy component is a skin sensitizer.

Eye injury/irritation:

Epoxy component is irritating to eyes.

Carcinogenicity:

Titanium dioxide and carbon black are classified as IARC class 2B carcinogens in nanograde form.

Not applicable to this product.

Endocrine disruptors:

CAS #25085-99-8 epoxy A is on the EU list of endocrine disruptors as category 3.

No scientific basis for listing.

Identified as not persistent in the environment.

Symptoms related to physical, chemical and toxicological characteristics:**In case of ingestion:**

The ingredients are a physical hazard if swallowed and may cause digestive constipation depending on the amount swallowed.

In case of skin contact:

Repeated skin contact may lead to sensitisation with the epoxide component.

In case of inhalation:

Not volatile in solid form.

Low level of danger.

In case of eye contact:

Direct contact of materials with the eye will cause redness and irritation.

11.2 Information on other hazards**Endocrine-disrupting properties**

Product:

Assessment:

The substance/mixture does not contain any components believed to have endocrine-disrupting properties according to REACH article 57(f) or Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at level 0.1% or higher.

Further information

Product:

Notes:

No data available

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SECTION 12: Ecological information

12.1 Toxicity:

Aquatic toxicity - applicable to Part A in uncured form.

Component	Animal	Test	Result	Other
Epoxy resin	Onchorhynchus mykiss	LC50 - 96 h	1.3 mg/l	Chronic 2
Epoxy resin	Daphnia Magna	EC50 - 48 hours	2.1 mg/l	

Uncured Part A is aquatically toxic.

Cured product is insoluble in water and is not aquatically toxic.

Cured product is safe to use in aquatic environments.

12.2 Persistence and degradability:

Cured product is stable and does not break down in air or water.

Unreacted part A is tenable and will gradually react to form a hard, non-reacting material.

12.3 Bioaccumulation:

No further information available.

12.4 Mobility in soil:

Cured product is not soluble in water.

12.5 Results of PBT and vPvB assessment

This substance does not meet the criteria for classification as PBT or vPvB.

12.6 Endocrine disrupting properties

Product:

Assessment:

The substance/mixture does not contain components believed to have endocrine-disrupting properties according to REACH article 57(f) or Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at level 0.1% or higher.

12.7 Other adverse effects:

No further information available.

SECTION 13: Instructions for disposal

13.1 Waste treatment methods:

For intended use:

Uncured Part A is aquatic toxic and a skin sensitizer according to GHS criteria.

Dispose of unused portions of A in accordance with Directive 2008/98/EC.

After intended use:

Cured product is inert in the environment and does not meet the criteria of Directive 2008/98/EC for hazardous waste.

Dispose of in accordance with local regulations.

SECTION 14: Transport information

14.1 UN number

Transport of this substance is not subject to regulations.

14.2 Proper designation of cargo according to UN model regulations

Transport of this substance is not subject to regulations.

14.3 Transport hazard class(es)

Transport of this substance is not subject to regulations.

14.4 Packing group

Transport of this substance is not subject to regulations.

14.5 Environmental risks

Transport of this substance is not subject to regulations.

14.6 Special precautions for the user

Notes:

The transport of dangerous goods, including loading and unloading, must be carried out in accordance with regulations by personnel who have received the necessary training;

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The transport classification(s) given herein are for information only, and based solely on the properties of the unpackaged material as described in this safety data sheet. Transport classifications may vary in terms of mode of transport, size of packaging and variations in regional or national regulations.

14.7 Sea transport in bulk in accordance with IMO instruments

Not applicable for product, as delivered.

SECTION 15: Statutory information

15.1 Safety, health and environmental regulations and legislation specific to the substance or mixture:

Chemical inventory status:

Ingredients included in: TSCA, DSL, Japan, and EC inventories.

Information on EU regulations:

Product contains epoxy resin with BPA.

The following EU regulations apply to BPA:

Reach Annex XVII Restriction - Listing 66 Bisphenol A (CAS No 80-05-7) shall not be placed on the market in thermal paper after January 2020 in a concentration of 0.02% or more by weight.

EU CLP Regulation (EC) No 1272/2008 - Bisphenol A is classified as toxic for reproduction, category 1B.

Cured material contains cured epoxy resin and may contain traces of Bisphenol A (<0.1%).

Candidate list of substances of very high concern for authorisation - ECHA - 4,4'-Isopropylidene diphenol (Bisphenol A; BPA - CAS 80-05-7 - date of inclusion 12/01/2017 - Toxic for reproduction (article 57c), Endocrine disrupting properties (article 57f) - environment; Endocrine disrupting properties (article 57f) - human health Germany - Water class (WGK)

Ingredients in part A are listed as WGK class 3 components.

Based on the ingredient %, the product should be listed as class 3 in unreacted form.

The small packaging (908 grams) of Part A in a separate container, makes the effect on water bodies in case of spillage unlikely.

When parts A and B are combined, the reactive components are converted into benign materials that do not pose a hazard to a water body.

Finished material is not water hazardous.

See section 8 for information on leachability.

15.2 Chemical safety assessment:

No chemical safety assessment has been carried out.

SECTION 16: Other information

Full text of the H statements

H317: may cause allergic skin reactions
H319: Causes severe eye irritation
H332: Harmful by inhalation.
H411: Toxic to aquatic organisms with long-lasting effects

Full text of other abbreviations

Acute Tox. : acute toxicity
Aquatic Chronic : Chronic aquatic toxicity
Eye Irrit. : Eye irritation
Skin Sens. : Skin sensitisation

Classification of the preparation:

Eye irritation. 2 H319
Skin Sens. 1B H317
Aquatic chronic 2 H411

Classification procedure:

Calculation method
Calculation method
Calculation method

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways;
ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road (ADR)

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Agreement); AICS - Australian Inventory of Chemical Substances; ASTM - American Society for the Testing of Materials; bw - Body Weight; CLP - Regulation on Classification, Labelling and Packaging; Regulation (EC) no. 1272/2008; CMR - carcinogenic, mutagenic or toxic to reproduction; DIN - standard of the German Institute for Standardisation; DSL - List of Domestic Substances (Canada); ECHA - European Chemicals Agency; EC number - EINECS number; ECx - Concentration associated with x% response; ELx - Loading capacity associated with x% response; EmS - Emergency Plan; ENCS - Existing and New Chemicals (Japan); ErCx - Concentration associated with x% growth response; GHS - Globally Harmonised System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - IMO International Code for the Construction and Equipment of Ships Carrying Dangerous Chemicals in Bulk; IC50 - Half Maximum Inhibitory Concentration; ICAO - International Civil Aviation Organisation; IECS - Inventory List of Existing Chemicals in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organisation; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardisation; KECI - Korean Inventory of Existing Chemicals; LC50 - Lethal concentration for 50% of a test population; LD50 - Lethal dose for 50% of a test population (lethal dose median); MARPOL - International Convention for the Prevention of Pollution from Ships; n.O.S. - Not mentioned elsewhere; NO(A)EC - No observable (negative) effect on concentration; NO(A)EL - No observable (negative) effect on level; NOELR - No observable effect on loading capacity; NZIoC - New Zealand Inventory of Chemicals; OECD - Organisation for Economic Cooperation and Development OECD; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - persistent, bioaccumulative and toxic substance; PICCS - Philippine Inventory of Chemicals and Chemicals; (Q)SAR - (Quantitative) structure-activity relationships; REACH - Regulation (EC) no. 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH); RID - Regulations concerning the International Carriage of Dangerous Goods by Rail (RID); SADT - Self-Accelerating Decomposition Temperature; SDS - safety data sheet; SVHC - substance of very high concern; TCSI - Taiwan Inventory of Chemical Substances; TRGS - Hazardous Substances Technical Regulation; TSCA - Toxic Substances Control Act (US); UN - United Nations; vPvB - very persistent and very bioaccumulative

Further information

Training recommendations:

Provide users with appropriate information, instructions and training.

The information in this safety data sheet is correct to the best of our knowledge at the date of issue indicated. This information is intended only as guidance for the safe handling, use, processing, storage, transport, disposal and release of the substance and should not be considered a warranty or quality statement. The information relates only to the product mentioned herein and is not valid for use in combination with other products or in any other process, unless stated in the text.