Crystal Clear

Artwork & Topcoat Epoxy Resin B hardener

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EC) No. 453/2010 Date of issue: 1/7/2021 Revision date: 12/09/2021 Version: 2.0

SECTION 1: Identification of the sub	ostance/mixture and of the company/undertaking
1.1. Product identifier	
Product form	: Mixture
Product name	: Crystal Clear Artwork & Topcoat Resin epoxy Resin B
Type of product hardener	
	: Hardener (Crosslinker)
1.2. Relevant identified u ses of the sub	stance or mixture and uses advised against
1.2.1. Relevant identified uses	
Intended for general public	
Main use category	: Industrial use
Industrial/Professional use spec	: Intended for general public Industrial
Use of the substance/mixture	: Laminating hardener, casting, injection, winding, infusion, gluing, foaming, coatings and sealants.
1.2.2. Uses advised against	
No additional information available	
1.3. Details of the supplier of the safety	data sheet
Kil Epox Shop Bildstock 9, 9323 Steinach, Switserland Tel +41(0)779173848 Mail <u>info@epoxy</u> <u>shop.ch</u> <u>www.epoxyresin-shop.ch</u>	resin-
1.4. Emergency telephone number	
Emergency number	: Tox info (Swiss) : +41 (0)44 251 51 51 (24h/2

Emergency number	: Tox info (Swiss) : +41 (0)44 251 51 51 (24h/2			
Country	Organisation/Company	Address	Emergency number	Email
Switserland	Tox Info Suisse	Freiestrasse 16 8032 Zürich	Tel. 145 (aus dem Ausland: +41 44 251 51 51)	info@toxinfo.ch

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Acute toxicity (oral), Category 4	H302
Acute toxicity (dermal), Category 4	H312
Serious eye damage/eye irritation, Category 1	H318
Hazardous to the aquatic environment — Chronic Hazard, Category 2	H411
Full text of H statements : see section 16	

Adverse physicochemical, human health and environmental effects

No additional information available

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP] Hazard pictograms (CLP)



: Danger

Signal word (CLP) Hazardous ingredients

: Propylidynetrimethanol, propoxylated, reaction products with ammonia

Hazard statements (CLP)

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according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EC) No. 453/2010 H318 - Causes serious eye damage. H411 - Toxic to aquatic life with long lasting effects. Precautionary statements (CLP) : P102 - Keep out of reach of children. P270 - Do not eat, drink or smoke when using this product. P271 - Use only outdoors or in a well-ventilated area. P273 - Avoid release to the environment. P281 - Use personal protective equipment as required. P301+P330+P331 - IF SWALLOWED: rinse mouth. Do NOT induce vomiting. P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing. P303+P361+P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

2.3. Other hazards

No additional information available

SECT	SECTION 3: Composition/information on ingredients			
3.1.	Substances			
Not ap	plicable			
3.2.	Mixtures			

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Propylidynetrimethanol, propoxylated, reaction products with ammonia	(CAS-No.) 39423-51-3 (EC-No.) 500-105-6 (REACH-no) 01- 2119556886-20	50 - 100	Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Dermal), H312 Eye Dam. 1, H318 Aquatic Chronic 2, H411

Full text of H-statements: see section 16

Extinguishing media

Suitable extinguishing media

Unsuitable extinguishing media

5.1.

SECTION 4: First aid measures		
4.1. Description of first aid measures		
First-aid measures general	: In all cases of doubt, or when symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person.	
First-aid measures after inhalation	 Remove person to fresh air and keep comfortable for breathing. Assure fresh air breathing. Respiratory arrest: artificial respiration or oxygen. If unconscious place in recovery position and seek medical advice. 	
First-aid measures after skin contact	: Wash contaminated clothing before reuse. Take off contaminated clothes, wash skin with plenty of water or have a shower (during minimum 15 minutes) and if necessary take medical advice. If on skin and if skin irritation or rash occurs, seek medical advice and attention.	
First-aid measures after eye contact	Rinse immediately with plenty of water. Remove contact lenses, if present and easy to do. Continue rinsing. Continue to rinse eye with clean water for 20-30 minutes, retracting eyelids often. Consult an eye specialist if necessary.	
First-aid measures after ingestion	: Rinse mouth. Do not induce vomiting because of corrosive effects. Immediately call a POISON CENTER/doctor.	
4.2. Most important symptoms and eff	ects, both acute and delayed	
Symptoms/effects after inhalation	: Cough. May cause respiratory irritation. Severe inhalation hazard.	
Symptoms/effects after skin contact	: May cause moderate irritation.	
Symptoms/effects after eye contact	: May cause moderate irritation, including burning sensation, tearing, redness or swelling. Risk o damage to eyes.	
Symptoms/effects after ingestion	: May cause burns or irritation of the linings of the mouth, throat, and gastrointestinal tract.	
4.3. Indication of any immediate media	cal attention and special treatment needed	
For the Anti-poison Center indicate all the components including the non dangerous ones to obtain (when possible) a total of 100 %.		
SECTION 5: Firefighting measures		

: Water spray. Foam. Dry powder. Carbon dioxide.

: Do not use a heavy water stream.

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ccording to Regulation (EC) No. 1907/2006 (REACH) w	It its amendment Regulation (EC) No. 453/2010	
5.2. Special hazards arising from the substance or mixture		
Fire hazard	: Do not breathe fumes from fires or vapours from decomposition.	
Hazardous decomposition products in case of fire	: Carbon dioxide. Carbon monoxide. Nitrogen oxides.	
5.3. Advice for firefighters		
Precautionary measures fire	: Evacuate personnel to a safe area. Do not enter fire area without proper protective equipment, including respiratory protection.	
Firefighting instructions	: Exercise caution when fighting any chemical fire. Unauthorized persons are not admitted. Eliminate all ignition sources if safe to do so. Prevent fire fighting water from entering the environment.	
Protection during firefighting	: Do not enter fire area without proper protective equipment, including respiratory protection. Wear a self contained breathing apparatus. Special protective equipment for fire-fighters.	
SECTION 6: Accidental release mea	sures	
6.1. Personal precautions, protective ed	quipment and emergency procedures	
General measures	: No open flames. No smoking. Spill should be handled by trained cleaning personnel properly equipped with respiratory and eye protection.	
6.1.1. For non-emergency personnel		
No additional information available		
6.1.2. For emergency responders		
No additional information available		
6.2. Environmental precautions		
Avoid release to the environment. Notify authori	ties if liquid enters sewers or public waters.	
6.3. Methods and material for containment and cleaning up		
Methods for cleaning up	: Clean up any spills as soon as possible, using an absorbent material to collect it. Do not allow to enter drains or water courses.	
6.4. Reference to other sections		
Concerning personal protective equipment to use, see section 8. Concerning disposal elimination after cleaning, see section 13.		
SECTION 7: Handling and storage		

SECTION 7: Handling and stor	age
7.1. Precautions for safe handling	
Precautions for safe handling	 Provide good ventilation in process area to prevent formation of vapour. Avoid all unnecessary exposure. Do not handle until all safety precautions have been read and understood. Keep containers closed.
Hygiene measures	: Wash contaminated clothing before reuse. Contaminated work clothing should not be allowed out of the workplace. Do not eat, drink or smoke when using this product. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.
7.2. Conditions for safe storage, i	ncluding any incompatibilities
Storage conditions	: Store in original container. Store, if possible, in a cool, well ventilated place away from incompatible materials.
Incompatible products	: Strong acids. Oxidizing agent. Halogenated hydrocarbons.
Incompatible materials	: Heat sources.
7.3. Specific end use(s)	
No additional information available	

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

No additional information available

8.2. Exposure controls

Personal protective equipment:

Self-contained breathing apparatus. Gloves. Gas mask. Protective clothing. Protective goggles. High gas/vapour concentration: gas mask with filter type K.

Hand protection:

Nitrile-rubber protective gloves. Chemical resistant gloves (according to European standard NF EN 374 or equivalent)

Eye protection:

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Chemical goggles or face shield

Skin and body protection:

Wear suitable protective clothing

Respiratory protection:

[In case of inadequate ventilation] wear respiratory protection. High gas/vapour concentration: gas mask with filter type K

Personal protective equipment symbol(s):



Consumer exposure controls:

Avoid contact during pregnancy/while nursing.

Other information:

Do not eat, drink or smoke during use.

SECTION 9: Physical and chemical properties		
9.1. Information on basic physical and	chemical properties	
Physical state	: Liquid	
Colour	: colourless to slightly yellow.	
Odour	: Amine-like.	
Odour threshold	: No data available	
рН	: No data available	
Relative evaporation rate (butylacetate=1)	: No data available	
Melting point	: No data available	
Freezing point	: No data available	
Boiling point	: No data available	
Flash point	: No data available	
Auto-ignition temperature	: No data available	
Decomposition temperature	: No data available	
Flammability (solid, gas)	: No data available	
Vapour pressure	: No data available	
Relative vapour density at 20 °C	: No data available	
Relative density	: 0.96	
Solubility	: No data available	
Log Pow	: No data available	
Viscosity, kinematic	: No data available	
Viscosity, dynamic	: 80 mPa.s	
Explosive properties	: No data available	
Oxidising properties	: No data available	
Explosive limits	: No data available	
9.2. Other information		
9.2. Other information		

No additional information available

SECT	SECTION 10: Stability and reactivity		
10.1.	Reactivity		
No addi	No additional information available		
10.2.	Chemical stability		
Stable in	n use and storage conditions as recommended in item 7.		
10.3.	Possibility of hazardous reactions		
No addi	tional information available		
10.4.	Conditions to avoid		
Heat. O	pen flame. Sparks.		

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10.5. Incompatible materials

Strong acids. Oxidizing agent. metals. halogenated hydrocarbons.

10.6. Hazardous decomposition products

Carbon monoxide. Carbon dioxide. Nitrogen oxides.

SECTION 11: Toxicological information		
11.1. Information on toxicological effects		
Acute toxicity (oral)	: Oral: Harmful if swallowed.	
Acute toxicity (dermal)	: Dermal: Harmful in contact with skin.	
Acute toxicity (inhalation)	: Not classified	
ATE CLP (oral)	500 mg/kg bodyweight	
ATE CLP (dermal)	1100 mg/kg bodyweight	
Skin corrosion/irritation	: Not classified	
Serious eye damage/irritation	: Causes serious eye damage.	
Respiratory or skin sensitisation	: Not classified	
Germ cell mutagenicity	: Not classified	
Carcinogenicity	: Not classified	
Reproductive toxicity	: Not classified	
STOT-single exposure	: Not classified	
STOT-repeated exposure	: Not classified	
Aspiration hazard	: Not classified	

SECTION 12: Ecological information		
12.1. Toxicity		
Acute aquatic toxicity :	Not classified	
Chronic aquatic toxicity :	Toxic to aquatic life with long lasting effects.	
12.2. Persistence and degradability		
No additional information available		
12.3. Bioaccumulative potential		
No additional information available		
12.4. Mobility in soil		
No additional information available		
12.5. Results of PBT and vPvB assessment		
No additional information available		
12.6. Other adverse effects		
No additional information available		
OFOTION 40. Diseased several langtions		

SECTION 13: Disposal considerations 13.1. Waste treatment methods

No additional information available

SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

ADR	IMDG	IATA	ADN	RID
14.1. UN number				
3082	3082	3082	3082	3082
14.2. UN proper shippi	ng name	·		
ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.	Environmentally hazardous substance, liquid, n.o.s.	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
Transport document descr	Transport document description			
UN 3082 ENVIRONMENTALLY HAZARDOUS	UN 3082 ENVIRONMENTALLY HAZARDOUS	UN 3082 Environmentally hazardous substance, liquid, n.o.s.	UN 3082 ENVIRONMENTALLY HAZARDOUS	UN 3082 ENVIRONMENTALLY HAZARDOUS

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ADR	IMDG	IATA	ADN	RID
SUBSTANCE, LIQUID, N.O.S. (Propylidynetrimethanol, propoxylated, reaction products with ammonia), 9, III	SUBSTANCE, LIQUID, N.O.S. (Propylidynetrimethanol, propoxylated, reaction products with ammonia), 9, III, MARINE POLLUTANT	(Propylidynetrimethanol, propoxylated, reaction products with ammonia), 9, III	SUBSTANCE, LIQUID, N.O.S. (Propylidynetrimethanol, propoxylated, reaction products with ammonia), 9, III	SUBSTANCE, LIQUID, N.O.S. (Propylidynetrimethanol, propoxylated, reaction products with ammonia), 9, III
14.3. Transport hazard	class(es)			
9	9	9	9	9
14.4. Packing group				
III	III	111	111	111
14.5. Environmental hazards				•
Dangerous for the environment : Yes	Dangerous for the environment : Yes Marine pollutant : Yes	Dangerous for the environment : Yes	Dangerous for the environment : Yes	Dangerous for the environment : Yes
No supplementary information available				

14.6. Special precautions for user

7	Over	land	trans	port

EmS-No. (Fire)

EmS-No. (Spillage)

Stowage category (IMDG)

Classification code (ADR)	: M6
Special provisions (ADR)	: 274, 335, 375, 601
Limited quantities (ADR)	: 51
Excepted quantities (ADR)	: E1
Packing instructions (ADR)	: P001, IBC03, LP01, R001
Special packing provisions (ADR)	: PP1
Mixed packing provisions (ADR)	: MP19
Portable tank and bulk container instructions (ADR)	: T4
Portable tank and bulk container special provisions (ADR)	: TP1, TP29
Tank code (ADR)	: LGBV
Vehicle for tank carriage	: AT
Transport category (ADR)	: 3
Special provisions for carriage - Packages (ADR)	: V12
Special provisions for carriage - Loading, unloading and handling (ADR)	: CV13
Hazard identification number (Kemler No.)	: 90
Orange plates	90 3082
EAC code	: •3Z
- Transport by sea	
Special provisions (IMDG)	: 274, 335, 969
Limited quantities (IMDG)	: 5 L
Excepted quantities (IMDG)	: E1
Packing instructions (IMDG)	: P001, LP01
Special packing provisions (IMDG)	: PP1
IBC packing instructions (IMDG)	: IBC03
Tank instructions (IMDG)	: T4
Tank special provisions (IMDG)	: TP2, TP29

: F-A

: S-F

: A

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- Air transport

PCA Excepted quantities (IATA)	: E1
PCA Limited quantities (IATA)	: Y964
PCA limited quantity max net quantity (IATA)	: 30kgG
PCA packing instructions (IATA)	: 964
PCA max net quantity (IATA)	: 450L
CAO packing instructions (IATA)	: 964
CAO max net quantity (IATA)	: 450L
Special provisions (IATA)	: A97, A158, A197
ERG code (IATA)	: 9L
- Inland waterway transport	
Classification code (ADN)	: M6
Special provisions (ADN)	: 274, 335, 375, 601
Limited quantities (ADN)	: 5 L
Excepted quantities (ADN)	: E1
Carriage permitted (ADN)	: T
Equipment required (ADN)	: PP
Number of blue cones/lights (ADN)	: 0
- Rail transport	
Classification code (RID)	: M6
Special provisions (RID)	: 274, 335, 375, 601
Limited quantities (RID)	: 5L
Excepted quantities (RID)	: E1
Packing instructions (RID)	: P001, IBC03, LP01, R001
Special packing provisions (RID)	: PP1
Mixed packing provisions (RID)	: MP19
Portable tank and bulk container instructions (RID)	: T4
Portable tank and bulk container special provisions (RID)	: TP1, TP29
Tank codes for RID tanks (RID)	: LGBV
Transport category (RID)	: 3
Special provisions for carriage – Packages (RID)	: W12
Special provisions for carriage - Loading, unloading and handling (RID)	: CW13, CW31
Colis express (express parcels) (RID)	: CE8
Hazard identification number (RID)	: 90

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

15.1.1. EU-Regulations

Contains no REACH substances with Annex XVII restrictions Contains no substance on the REACH candidate list Contains no REACH Annex XIV substances

15.1.2. National regulations

No additional information available

15.2. Chemical safety assessment

No additional information available

SECTION 16: Other information

Indication of changes:

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according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EC) No. 453/2010

Revision - See : *.	
Data sources	: REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006.
Other information	: Information in this safety data sheet is based on actual knowledge in our possession and our experience. This does not in any way excuse the user from knowing and applying all the regulations governing his activity. It is the sole responsibility of the user to take all precautions required in handling the product. It is the user's responsibility to take mentioned precaution measures and ensure that this information is complete and sufficient for the use of this product.
Full text of H- and EUH-statements:	
Acute Tox. 4 (Dermal)	Acute toxicity (dermal), Category 4
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Aquatic Chronic 2	Hazardous to the aquatic environment — Chronic Hazard, Category 2

Aquatic Chronic 2	Hazardous to the aquatic environment — Chronic Hazard, Category 2	
Eye Dam. 1	Serious eye damage/eye irritation, Category 1	
H302	Harmful if swallowed.	
H312	Harmful in contact with skin.	
H318	Causes serious eye damage.	
H411	Toxic to aquatic life with long lasting effects.	

SDS EU (REACH Annex II)

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product