

Safety Data Sheet

H315	Causes skin irritation
H317	May cause an allergic skin reaction
H319	Causes serious eye irritation

Precautionary statements

Prevention	
P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
P264 + P265	Wash Face and hands thoroughly after handling.. Do not touch eyes. P270 Do not eat, drink or smoke when using this product.
P270	Do not eat, drink or smoke when using this product.
P272	Contaminated work clothing should not be allowed out of the workplace.
P280	Wear protective gloves/protective clothing

Response

P301 + P317	IF SWALLOWED: Get medical help.
P330	Rinse mouth.
P317	Get medical help.
P302 + P352	IF ON SKIN: Wash with plenty of soap and water.
P321	Specific treatment (See relevant instructions on this label)
P332 + P317	If skin irritation occurs: Get medical help.
P332 + P317.	If skin irritation occurs: Get medical help.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
P337 + P317. P333 + P317 If skin irritation occurs: Get medical help or rash	If eye irritation persists: Get medical help
P333 + P317	If skin irritation or rash occurs: Get medical help
Storage	Not applicable

Disposal

P501	Dispose of contents/container in accordance with local/regional/national/international regulations.
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Hazard description

Physical and chemical hazards	Liquid, toxic smoke/fumes in a fire.
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Inhaled	Inhalation of the product may produce adverse health effects or irritation of the respiratory tract following discomfort.
Ingestion	Accidental ingestion of the product may be harmful to the health of the individual.
Skin Contact	The product may cause an allergic skin reaction

	following direct contact with the skin.
Eye	This product can cause serious eye irritation. Direct eye contact may cause severe inflammation and accompanying pain.
Environmental hazards	Please refer to 12th chapter of SDS

3. COMPOSITION/INFORMATION ON INGREDIENTS

Component	Weight %	Hazard classification according to CLP
Silicon dioxide CAS: 7631-86-9 EC: 231-545-4 Index NO.:	65	Not Classified
Epoxy resin CAS: 25068-38-6 EC: 500-033-5 Index NO.:	35	Not Classified
Epoxy caulk B component		
silicon dioxide CAS: 7631-86-9 EC: 231-545-4 Index NO	68	Not Classified
silicon dioxide CAS: 7631-86-9 EC: 231-545-4 Index NO	28	Not Classified
3-Mercapto-1,2-propanediol CAS: 96-27-5 EC: 202-495-0 Index NO.: -	7	Acute Tox. 4, H302 Acute Tox. 3, H311 Skin Irrit. 2, H315 Skin Sens. 1, H317
tri(dimethylamino methyl)phenol CAS : 90-72-2 EC: 202-013-9 Index NO.: -	5	Acute Tox. 4, H302 Acute Tox. 3, H311 Eye Irrit. 2, H319

4. FIRST AID MEASURES

Description of first aid measures	
General advice	Immediate medical attention is required. Show this safety data sheet (SDS) to the doctor in attendance.
Eye contact	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician if feel uncomfortable.
Skin contact	Take off contaminated clothing and shoes immediately. Wash off with plenty of water for at least 15 minutes and consult a physician if feel uncomfortable.
Ingestion	Do not induce vomiting. Never give anything by mouth to an unconscious person. Call a physician or Poison Control Center immediately
Inhalation	Move victim into fresh air. If breathing is difficult, give oxygen. Do not use mouth to mouth resuscitation if victim ingested or inhaled the substance. If not breathing, give artificial respiration and consult a physician immediately.

Protecting of first-aiders	Ensure that medical personnel are aware of the substance involved. Take precautions to protect themselves and prevent spread of contamination
Most important symptoms/effects, acute and delayed	
Substance accumulation, in the human body, may occur and may cause some concern following repeated or long-term occupational exposure.	
Indication of any immediate medical attention and special treatment needed	
Treat symptomatically.	
Symptoms may be delayed.	

5. FIRE FIGHTING MEASURES

Extinguishing media	
Suitable extinguishing media	Use extinguishing media suitable for surrounding area.
Unsuitable extinguishing media	There is no restriction on the type of extinguisher which may be used
Specific hazards arising from the substance or mixture	
In case of fire, irritating, toxic or corrosive gases may be produced.	
Hazardous flammable gases or vapors may be generated in the event of a fire.	
May expansion or decompose explosively when heated or involved in fire.	
Special protective equipment and precautions for fire-fighters.	
As in any fire, wear self-contained breathing apparatus (MSHA/NIOSH approved or equivalent) and full protective gear.	
Fight fire from a safe distance, with adequate cover.	
Prevent fire extinguishing water from contaminating surface water or the ground water system	

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation. Remove all sources of ignition. Take precautionary measures against static discharges.

Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak.

Use personal protective equipment. Avoid breathing vapours, mist, gas or dust.

Emergency personnel will be equipped with appropriate personal protective equipment (see Part 8).

Environmental precautions

Prevent further leakage or spillage if safe to do so.

Discharge into the environment must be avoided

Methods and materials for containment and cleaning up

When a small amount of leakage occurs, dry sand or inert adsorbent material can be used to absorb the leakage, and when a large amount of leakage occurs, embankment should be built to control it. Cut off the source of leakage as much as possible.

Keep the leaking place ventilated.

Adhered or collected material should be promptly disposed of, in accordance with appropriate laws and regulations.

7. HANDLING AND STORAGE

Precautions for safe handling

Protective measures

Handling is performed in a well ventilated place.

Wear suitable protective equipment.

Avoid contact with skin and eyes.

Keep away from heat/sparks/open flames/ hot surfaces.

Measures to prevent fire

Keep away from heat/sparks/open flames/hot surfaces.

Use only non-sparking tools.

Use explosion proof equipment.

Measures to prevent aerosol and dust generation

Avoid formation of dust and aerosols.

Provide appropriate exhaust ventilation at places where dust is formed

Advice on general occupational hygiene

Wash hands and face after using of the substances.

Replace the contaminated clothing immediately.

Conditions for safe storage, including any incompatibilities

Keep containers tightly closed.

Keep containers in a dry, cool and well-ventilated place.

Keep away from heat/sparks/open flames/hot surfaces.

Store away from incompatible materials and foodstuff containers.

Specific end uses

In addition to use mentioned in the first parts, unforeseen another specific end uses

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Component	Country/Region	Limit value - TWA		Limit value - STEL	
		ppm	mg/m ³	ppm	mg/m ³
Silicon dioxide	Australia	/	4	/	/
	Austria	/	2	/	/
	Belgium	/	10	/	/
	Canada-Ontario	/	10	/	/
	Finland	/	5	/	/
	New Zealand	/	10	/	/

	South Korea	/	10	/	/
	USA - NIOSH	/	6	/	/
Biological limit values					
No relevant regulations					
Monitoring methods					
EN 14042 Workplace atmospheres. Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents.					
GBZ/T 160.1~GBZ/T 160.81-2004 Determination of toxic substances in workplace air (Series standard)					
Derived No effect level (DNEL)					
No data available					
Predicted No Effect Concentration (PNEC)					
No information available					
Engineering controls					
Ensure adequate ventilation, especially in confined areas.					
Ensure that eyewash stations and safety showers are close to the workstation location.					
Use explosion-proof electrical/ventilating/lighting/equipment					
Handle in accordance with good industrial hygiene and safety practice.					
Personal protection equipment					
General requirement					
Eye protection	Must wear appropriate anti-corrosion goggles.				
Hand protection	Must wear antistatic chemical protective gloves.				
Respiratory protection	Must wear appropriate personal respiratory protective equipment.				
Skin and body protection	Must wear appropriate Work clothes and shoes.				

9. EXPOSURE CONTROLS/PERSONAL PROTECTION

Physical and chemical properties	
Appearance	Visual inspection
Odor	Not Available
pH	Not Available
Melting/Freezing Point Range	Not Available
Flash Point (Closed Cup)	Not Available
Evaporation Rate	Not Available
Flammability	Non-flammable (marked as "Non-flammable" in the image)
Lower Explosion Limit (%v/v)	Not Available
Pressure (Pa)	Not Available

Relative Density (Water = 1)	Not Available
Solubility (mg/L)	Not Available
n-Octanol/Water Partition Coefficient	Not Available
Self-Igniting Temperature (°C)	Not Available
Decomposition Temperature (°C)	Not Available
Viscosity (mm ² /s)	Not Available
Particle Characteristics	Not Available
Oxidizing Property	Not Available

10. STABILITY AND REACTIVITY

Stability and reactivity	
Reactivity	Contact with incompatible substances can cause decomposition or other chemical reactions.
Chemical stability	Stable under proper operation and storage conditions.
Possibility of hazardous reactions	No information available
Conditions to avoid	Incompatible materials, heat, flame and spark.
Incompatible materials	No information available
Hazardous decomposition products	Under normal conditions of storage and use, hazardous decomposition products should not be produced

11. TOXICOLOGICAL INFORMATION

Ecological information			
Component	LD50(oral)	LD50(dermal)	LC50(inhalation,4h)
Epoxy resin	11400mg/kg(Rat)	>22800mg/kg(Rabbit)	No information available
tri(diethylamino methyl)phenol	2169mg/kg(Rat)	1280mg/kg(Rabbit)	No information available
Carcinogenicity			
Component	IARC		NTP
Silicon dioxide	Category 3		Not Listed
Epoxy resin	Not Listed		Not Listed
pentaerythritol propoxylate	Not Listed		Not Listed
3-Mercapto-1,2-propanediol	Not Listed		Not Listed
tri(dimethylamino methyl)phenol	Not Listed		Not Listed
Endocrine disruptors	No information available		
Others			
Skin corrosion/irritation	Causes skin irritation.		

Serious eye damage/irritation	Causes serious eye irritation.
Skin sensitization	May cause an allergic skin reaction.
Respiratory sensitization	Based on available data, the classification criteria are not met.
Reproductive toxicity	Based on available data, the classification criteria are not met.
STOT-single exposure	Based on available data, the classification criteria are not met.
STOT-repeated exposure	Based on available data, the classification criteria are not met.
Aspiration hazard	Based on available data, the classification criteria are not met.
Germ cell mutagenicity	Based on available data, the classification criteria are not met.

12. ECOLOGICAL INFORMATION

Aquatic toxicity:	No further relevant information available.
Persistence and degradability	No further relevant information available.
Bio accumulative potential	No further relevant information available.
Mobility in soil	No further relevant information available.
PBT:	No further relevant information available.
vPvB:	No further relevant information available.
Endocrine disrupting properties	No further relevant information available.
Other adverse effects	No further relevant information available.

13. DISPOSAL CONSIDERATIONS

Waste treatment methods	Must not be disposed together with household garbage. Do not allow product to reach sewage system.
Uncleaned packaging:	Disposal must be made according to official regulations.

14. TRANSPORT INFORMATION

UN number or ID number	No further relevant information available.
ADRIRIDIADN, IMDG, IATA	No further relevant information available.
UN proper shipping name	No further relevant information available.
ADRJRID/ADN, IMDG, IATA	No further relevant information available.
Transport hazard class(es)	No further relevant information available.
ADRJRID/ADN, IMDG, IATA	No further relevant information available.
Class	No further relevant information available.
Label	No further relevant information available.

Packing group	No further relevant information available.
ADR/RID/ADN, IMDG, IATA	No further relevant information available.
Environmental hazards:	No further relevant information available.
Marine pollutant:	No further relevant information available.
Special precautions for user	No further relevant information available.
Maritime transport in bulk according to IMO instruments	No further relevant information available.
Transport/Additional information:	No further relevant information available.

15. REGULATORY INFORMATION

REGULATION (EU) 2019/1021 on persistent organic pollutants (POP)	None of the ingredients is listed.
Regulation (EU) No 649/2012	None of the ingredients is listed.
REGULATION (EU) 2019/1148	None of the ingredients is listed.
Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))	None of the ingredients is listed.
Annex II - REPORTABLE EXPLOSIVES PRECURSORS	None of the ingredients is listed.
Regulation (EC) No 273/2004 on drug precursors	None of the ingredients is listed.
Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors	None of the ingredients is listed.
REGULATION (EC) No 1005/2009 on substances that deplete the ozone layer - ANNEX I (Ozone depleting potential)	None of the ingredients is listed.
Other regulations, limitations and prohibitive regulations	None of the ingredients is listed.
SVHC Candidate List of REACH Regulation Annex XIV Authorization (1416/2023)	None of the ingredients is listed.
REACH Regulation Annex XVII Restriction (816/2023) See Section 16 for information about restriction of use.	None of the ingredients is listed.
REACH Regulation Annex XIV Authorization List (8/4/2022)	None of the ingredients is listed.
Chemical safety assessment: A Chemical Safety Assessment has not been carried out.	None of the ingredients is listed.

16. OTHER INFORMATION

Other Information	This information is offered in good faith as typical values and not as a product specification. No warranty, expressed or implied, is hereby made. The recommended industrial hygiene and safe handling procedures are believed to be generally applicable. However, each user should review these recommendations in the specific context of the intended use and determine whether they are appropriate.
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The strongest hold for the toughest material