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Safety Data Sheet acc. to OSHA HCS

Printing date 08/31/2022

Reviewed on 08/31/2022

· Product identifier	
• Trade name: <u>TCC 104-5</u>	5 (B) Hardener
• Article number: 656940 • Application of the subst	ance / the mixture Epoxy hardener
 Details of the supplier of Sika Advanced Resins, U EHS Department advanced.resins.ehs@us Manufacturer/Supplier: Manufacturer: Sika Advanced Resins 30800 Stephenson Hwy Madison Heights MI 48071 USA 	IS .sika.com
• Emergency telephone nu During normalopening t	imes: $+1$ (248) 588-2270
	nergency: +1 (800) 424-9300
? Hazard(s) identifica	tion
? Hazard(s) identifica	tion stance or mixture
2 Hazard(s) identifica • Classification of the sub GHS08 Health	tion stance or mixture
2 Hazard(s) identifica • Classification of the sub GHS08 Health	tion stance or mixture hazard H351 Suspected of causing cancer.
2 Hazard(s) identifica Classification of the sub GHS08 Health Carcinogenicity 2 GHS05 Corro	tion stance or mixture hazard H351 Suspected of causing cancer. sion
2 Hazard(s) identifica Classification of the sub GHS08 Health Carcinogenicity 2	tion stance or mixture hazard H351 Suspected of causing cancer.
2 Hazard(s) identification Classification of the sub GHS08 Health Carcinogenicity 2 GHS05 Corros Skin Corrosion 1B Eye Damage 1 GHS07 Acute Toxicity - Dermal	tion stance or mixture in hazard H351 Suspected of causing cancer. sion H314 Causes severe skin burns and eye damage. H318 Causes serious eye damage.

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Hazard pictograms	
$\land \land \land \land$	
GHS05 GHS07 GHS08	
Signal word Danger	
Hazard-determining components of labeling:	
Di-(3-aminopropyl) ether of diethylene	
glycol	
diethylmethylbenzenediamine	
4,4'-methylenebis(cyclohexylamine)	
3,6-diazaoctanethylenediamin	
Hazard statements	
Harmful in contact with skin or if inhaled.	
Causes severe skin burns and eye damage.	
Suspected of causing cancer.	
Precautionary statements	
Avoid breathing dust/fume/gas/mist/vapors/spray	
Obtain special instructions before use.	
Do not handle until all safety precautions have been read and understood.	
Do not breathe dusts or mists.	
Wash thoroughly after handling.	
Use only outdoors or in a well-ventilated area.	
Wear protective gloves/protective clothing/eye protection/face protection.	
If swallowed: Rinse mouth. Do NOT induce vomiting.	
If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/show	wer.
IF INHALED: Remove person to fresh air and keep comfortable for breathing.	
If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if pres	ent and easy to do
Continue rinsing.	
Immediately call a poison center/doctor.	
IF exposed or concerned: Get medical advice/attention.	
Specific treatment (see on this label).	
Take off contaminated clothing and wash it before reuse.	
Wash contaminated clothing before reuse.	
Store locked up.	
Dispose of contents/container in accordance with local/regional/national/international regula	tions.
Classification system:	
NFPA ratings (scale 0 - 4)	
Health = 3	
Fire = 1	
3 0 Reactivity = 0	
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· HMIS-ratings (scale 0 - 4)

HEALTH*3Health = *3FIRE1Fire = 1REACTIVITY0Reactivity = 0

· Other hazards

· Results of PBT and vPvB assessment

· PBT: Not applicable.

· vPvB: Not applicable.

3 Composition/information on ingredients

· Chemical characterization: Mixtures

• Description: Mixture of the substances listed below with nonhazardous additions.

· Dangerous components:		
CAS: 26950-63-0	Teta, reaction products with propylene oxide Polyoxylated Triethylenetetramine	20-50%
CAS: 4246-51-9	Di-(3-aminopropyl) ether of diethylene glycol	10-20%
CAS: 1761-71-3 EINECS: 217-168-8	4,4'-methylenebis(cyclohexylamine)	10-20%
CAS: 68479-98-1 EINECS: 270-877-4	diethylmethylbenzenediamine	10-20%
CAS: 112-24-3 EINECS: 203-950-6	3,6-diazaoctanethylenediamin	5-10%

4 First-aid measures

· Description of first aid measures

• General information:

Immediately remove any clothing soiled by the product.

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

• After inhalation:

Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.

In case of unconsciousness place patient stably in side position for transportation.

• *After skin contact: Immediately wash with water and soap and rinse thoroughly.*

• After eye contact: Rinse opened eye for several minutes under running water. Then consult a doctor.

• After swallowing: Drink copious amounts of water and provide fresh air. Immediately call a doctor.

• Information for doctor:

• Most important symptoms and effects, both acute and delayed No further relevant information available.

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• *Indication of any immediate medical attention and special treatment needed No further relevant information available.*

5 Fire-fighting measures

- · Extinguishing media
- Suitable extinguishing agents: Use fire fighting measures that suit the environment.
- Special hazards arising from the substance or mixture
- During heating or in case of fire poisonous gases are produced.
- · Advice for firefighters
- Protective equipment:
- Mouth respiratory protective device.
- Wear self-contained respiratory protective device.
- Additional information
- Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

6 Accidental release measures

Personal precautions, protective equipment and emergency procedures	
Mount respiratory protective device. Wear protective equipment. Keep unprotected persons away.	
• Environmental precautions:	
Dilute with plenty of water.	
Do not allow to enter sewers/ surface or ground water.	
• Methods and material for containment and cleaning up:	
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawa Use neutralizing agent.	dust).
Dispose contaminated material as waste according to item 13.	
Ensure adequate ventilation.	
· Reference to other sections	
See Section 7 for information on safe handling.	
See Section 8 for information on personal protection equipment.	
See Section 13 for disposal information.	
· Protective Action Criteria for Chemicals	
· PAC-1:	
4246-51-9 Di-(3-aminopropyl) ether of diethylene	13 mg/m ³
glycol	
112-24-3 3,6-diazaoctanethylenediamin	3 ppm
· PAC-2:	
4246-51-9 Di-(3-aminopropyl) ether of diethylene	140 mg/m ³
glycol	
112-24-3 3,6-diazaoctanethylenediamin	14 ppm
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· PAC-3:	
4246-51-9 Di-(3-aminopropyl) ether of diethylene glycol	850 mg/m ³
112-24-3 3,6-diazaoctanethylenediamin	83 ppm

7 Handling and storage

· Handling:

- Precautions for safe handling
- Ensure good ventilation/exhaustion at the workplace. Open and handle receptacle with care.
- Prevent formation of aerosols.

• Information about protection against explosions and fires: Keep respiratory protective device available.

- · Conditions for safe storage, including any incompatibilities
- · Storage:
- Requirements to be met by storerooms and receptacles: No special requirements.
- Information about storage in one common storage facility: Not required.
- *Further information about storage conditions: Keep receptacle tightly sealed.*
- Specific end use(s) No further relevant information available.

8 Exposure controls/personal protection

- Additional information about design of technical systems: No further data; see item 7.
- · Control parameters
- Components with limit values that require monitoring at the workplace:

The following constituent is the only constituent of the product which has a PEL, TLV or other recommended exposure limit.

At this time, the other constituents have no known exposure limits.

112-24-3 3,6-diazaoctanethylenediamin

WEEL Long-term value: 6 mg/m³, 1 ppm Skin

• Additional information: The lists that were valid during the creation were used as basis.

- · Exposure controls
- · Personal protective equipment:
- · General protective and hygienic measures:
- Keep away from foodstuffs, beverages and feed.
- Immediately remove all soiled and contaminated clothing.
- Wash hands before breaks and at the end of work.
- Store protective clothing separately.
- Avoid contact with the eyes.
- Avoid contact with the eyes and skin.

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• Breathing equipment:

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.

• Protection of hands:



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation \cdot *Material of gloves*

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

· Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

• Eye protection:



Tightly sealed goggles

Information on basic physical and General Information Appearance:	chemical properties	
Form:	Liquid	
Color:	Amber colored	
Odor:	Amine-like	
Odor threshold:	Not determined.	
pH-value:	Not determined.	
Change in condition Melting point/Melting range: Boiling point/Boiling range:	Undetermined. 181 °C (357.8 °F)	
Flash point:	105 °C (221 °F)	
Flammability (solid, gaseous):	Not applicable.	
Ignition temperature:	335 °C (635 °F)	



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Decomposition temperature:	Not determined.	
Auto igniting:	Product is not selfigniting.	
Danger of explosion:	Product does not present an explosion hazard.	
Explosion limits:		
Lower:	2 Vol %	
Upper:	6.7 Vol %	
· Vapor pressure:	Not determined.	
Density at 20 °C (68 °F):	1 g/cm ³ (8.35 lbs/gal)	
Relative density	Not determined.	
· Vapor density	Not determined.	
Evaporation rate	Not determined.	
Solubility in / Miscibility with		
Water:	Fully miscible.	
Partition coefficient (n-octanol/wa	t ter): Not determined.	
Viscosity:		
Dynamic:	Not determined.	
Kinematic:	Not determined.	
Solvent content:		
VOC content:	0.00 %	
	0.0 g/l / 0.00 lb/gal	
Solids content:	0.0 %	
Other information	No further relevant information available.	

10 Stability and reactivity

- · Reactivity No further relevant information available.
- · Chemical stability
- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- · Possibility of hazardous reactions No dangerous reactions known.
- · Conditions to avoid No further relevant information available.
- · Incompatible materials: No further relevant information available.
- · Hazardous decomposition products: Carbon monoxide and carbon dioxide

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11 Toxicological information

- · Information on toxicological effects
- · Acute toxicity:
- Primary irritant effect:
- on the skin: Caustic effect on skin and mucous membranes.
- on the eye:
- Strong caustic effect.

Strong irritant with the danger of severe eye injury.

• Sensitization: No sensitizing effects known.

• Additional toxicological information:

The product shows the following dangers according to internally approved calculation methods for preparations: Harmful

- Corrosive
- Irritant

Swallowing will lead to a strong caustic effect on mouth and throat and to the danger of perforation of esophagus and stomach.

· Carcinogenic categories

· IARC (International Agency for Research on Cancer)

None of the ingredients is listed.

· NTP (National Toxicology Program)

None of the ingredients is listed.

· OSHA-Ca (Occupational Safety & Health Administration)

None of the ingredients is listed.

12 Ecological information

- · Toxicity
- Aquatic toxicity: No further relevant information available.
- · Persistence and degradability No further relevant information available.
- Behavior in environmental systems:
- · Bioaccumulative potential No further relevant information available.
- *Mobility in soil* No further relevant information available.
- Additional ecological information:
- · General notes:

Water hazard class 2 (Self-assessment): hazardous for water

Do not allow product to reach ground water, water course or sewage system. Must not reach bodies of water or drainage ditch undiluted or unneutralized. Danger to drinking water if even small quantities leak into the ground.

- · Results of PBT and vPvB assessment
- *PBT:* Not applicable.
- · vPvB: Not applicable.

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• Other adverse effects No further relevant information available.

13 Disposal considerations

- · Waste treatment methods
- · Recommendation:

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

- · Uncleaned packagings:
- **Recommendation:** Disposal must be made according to official regulations.
- · Recommended cleansing agent: Water, if necessary with cleansing agents.

· UN-Number	
·DOT	NA2735
· IMDG, IATA	UN2735
· UN proper shipping name	
$\cdot DOT$	Amines, liquid, corrosive, n.o.s. (Triethylenetetramin
	Cycloaliphatic Amine)
·IMDG	AMINES, LIQUID, CORROSIVE, N.O.
	(TRIETHYLENETETRAMINE, Cycloaliphatic Amine), MARI
	POLLUTANT
·IATA	AMINES, LIQUID, CORROSIVE, N.O.
	(TRIETHYLENETETRAMINE, Cycloaliphatic Amine)
• Transport hazard class(es)	
AN AN	
Class	8 Corrosive substances
· Class · Label	8 Corrosive substances 8
· Label	8

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Label	8
IATA	
\wedge	
8	
Class	8 Corrosive substances
Label	8
Packing group	
DOT, IMDG, IATA	II
Environmental hazards:	Product contains environmentally hazardous substance
Maring rollingants	diethylmethylbenzenediamine Yes
Marine pollutant:	<i>Symbol (fish and tree)</i>
Special precautions for user Hazard identification number (Kemler code)	Warning: Corrosive substances
EMS Number:	<i>F-A,S-B</i>
Segregation groups	(SGG18) Alkalis
Stowage Category	A
Segregation Code	SG35 Stow "separated from" SGG1-acids
Transport in bulk according to Annex II of	
MARPOL73/78 and the IBC Code	Not applicable.
Transport/Additional information:	
DOT	
Quantity limitations	On passenger aircraft/rail: 1 L
Demonstration	On cargo aircraft only: 30 L
Remarks:	Special marking with the symbol (fish and tree).
	17
Limited quantities (LQ)	1L Code: E2
Excepted quantities (EQ)	Code: E2 Maximum net quantity per inner packaging: 30 ml
	Maximum net quantity per inner packaging: 50 ml Maximum net quantity per outer packaging: 500 ml
UN "Model Regulation":	UN 2735 AMINES, LIQUID, CORROSIVE, N.O.S.
	(TRIETHYLENETETRAMINE, CYCLOALIPHATIC AMINE),
	II, ENVIRONMENTALLY HAZARDOUS

15 Regulatory information

• Safety, health and environmental regulations/legislation specific for the substance or mixture No further relevant information available.

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• Sara	(Contd. of page 10)
Section 355 (extremely hazardous substances):	
None of the ingredients is listed.	
· Section 313 (Specific toxic chemical listings):	
None of the ingredients is listed.	
• TSCA (Toxic Substances Control Act):	
All components have the value ACTIVE.	
• Chemicals regulated by TSCA Section 12(b)	
None of the ingredients is listed.	
· Chemical regulated by TSCA 5(a)(2)rule:	
None of the ingredients is listed.	
· Hazardous Air Pollutants	
None of the ingredients is listed.	
· Proposition 65	
· Chemicals known to cause cancer:	
None of the ingredients is listed.	
• Chemicals known to cause reproductive toxicity for females:	
None of the ingredients is listed.	
· Chemicals known to cause reproductive toxicity for males:	
None of the ingredients is listed.	
· Chemicals known to cause developmental toxicity:	
None of the ingredients is listed.	
· Carcinogenic categories	
· EPA (Environmental Protection Agency)	
None of the ingredients is listed.	
· TLV (Threshold Limit Value)	
None of the ingredients is listed.	
· NIOSH-Ca (National Institute for Occupational Safety and Health)	
None of the ingredients is listed.	

· Listed in CWC Regulations

None of the ingredients is listed.

• *GHS label elements* The product is classified and labeled according to the Globally Harmonized System (GHS). • *Hazard pictograms*





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(Contd. of page 11) · Signal word Danger · Hazard-determining components of labeling: Di-(3-aminopropyl) ether of diethylene glycol diethylmethylbenzenediamine *4,4'-methylenebis(cyclohexylamine)* 3,6-diazaoctanethylenediamin · Hazard statements Harmful in contact with skin or if inhaled. Causes severe skin burns and eye damage. Suspected of causing cancer. · Precautionary statements Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not breathe dusts or mists. Wash thoroughly after handling. Use only outdoors or in a well-ventilated area. Wear protective gloves/protective clothing/eye protection/face protection. If swallowed: Rinse mouth. Do NOT induce vomiting. If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. IF INHALED: Remove person to fresh air and keep comfortable for breathing. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. *Immediately call a poison center/doctor.* IF exposed or concerned: Get medical advice/attention. Specific treatment (see on this label). Take off contaminated clothing and wash it before reuse. Wash contaminated clothing before reuse. Store locked up. Dispose of contents/container in accordance with local/regional/national/international regulations. · Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· Contact:

· Date of preparation / last revision 08/31/2022

 Abbreviations and acronyms:
 IMDG: International Maritime Code for Dangerous Goods DOT: US Department of Transportation IATA: International Air Transport Association EINECS: European Inventory of Existing Commercial Chemical Substances ELINCS: European List of Notified Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) NFPA: National Fire Protection Association (USA)
 HMIS: Hazardous Materials Identification System (USA)
 VOC: Volatile Organic Compounds (USA, EU)

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PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative NIOSH: National Institute for Occupational Safety OSHA: Occupational Safety & Health TLV: Threshold Limit Value PEL: Permissible Exposure Limit REL: Recommended Exposure Limit Acute Toxicity - Dermal 4: Acute toxicity - Category 4 Skin Corrosion 1B: Skin corrosion/irritation – Category 1B *Eye Damage 1: Serious eye damage/eye irritation – Category 1 Carcinogenicity 2: Carcinogenicity – Category 2*

* * Data compared to the previous version altered.

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