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Safety Data Sheet acc. to OSHA HCS

Printing date 05/21/2020

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Reviewed on 05/21/2020

Identified	ition	
· Product ide	entifier	
· Trade nam	e: SikaBiresin CH72-3 (MARINE 824 HARD)	
	aber: 1824089-1 a of the substance / the mixture Epoxy hardener	
Sika Advan EHS Depar Manufactu Supplier's N Headquarte 30800 Step	rer/Supplier: Name: Sika Advanced Resins, US	
advancedre	esins.ehs@us.sika.com	
• Emergency During nor	n department: Product safety department telephone number: mal opening times: +1 (248) 588-2270 C 24-hour Emergency: +1 (800) 424-9300	
) identification	
· Classificati	on of the substance or mixture	
	GHS05 Corrosion	
Skin Corr.	1A H314 Causes severe skin burns and eye damage.	
	GHS07	
Skin Sens. 1	H317 May cause an allergic skin reaction.	
Skin Sens. 1 • Label elem	ents elements The product is classified and labeled according	to the Globally Harmonized System (GHS).
Skin Sens. 1 • Label eleme • GHS label	ents elements The product is classified and labeled according	to the Globally Harmonized System (GHS).
Skin Sens. 1 • Label elema • GHS label • Hazard pict	ents elements The product is classified and labeled according	to the Globally Harmonized System (GHS).



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Hazard-dete	ermining components of labeling:
3,6-diazaoci	tanethylenediamin
Polyoxyprop	pylenediamine
Teta, reactio	on products with propylene oxide
Polyoxylate	d Triethylenetetramine
Hazard state	ements
	re skin burns and eye damage.
May cause a	ın allergic skin reaction.
Precautiona	iry statements
Avoid breat	hing dust/fume/gas/mist/vapors/spray
	the dusts or mists.
	tive gloves/protective clothing/eye protection/face protection.
	r hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
	D: Remove person to fresh air and keep comfortable for breathing.
	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do
Continue rir	
	call a poison center/doctor.
Specific trea	itment (see on this label).
Wash contai	minated clothing before reuse.
Store locked	l up.
	contents/container in accordance with local/regional/national/international regulations.
Classificatio	
NFPA ratin	gs (scale 0 - 4)
	Health = 3
	Fire = 1
	$\frac{1}{Reactivity} = 0$
\checkmark	
HMIS-ratin	gs (scale 0 - 4)
HEALTH	^{*3} Health = $*3$
FIRE	1 $Fire = 1$
REACTIVITY	Reactivity = 0
Other hazar	
	BT and vPvB assessment
PBT: Not ap	
vPvB: Not a	pplicable.

3 Composition/information on ingredients

· Chemical characterization: Mixtures

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

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· Dangerous compone	ents:	
CAS: 112-24-3	3,6-diazaoctanethylenediamin	20-50%
EINECS: 203-950-6		
CAS: 9046-10-0	Polyoxypropylenediamine	20-50%
CAS: 26950-63-0	Teta, reaction products with propylene oxide	10-20%
	Polyoxylated Triethylenetetramine	

4 First-aid measures

· Description of first aid measures

- General information: Immediately remove any clothing soiled by the product.
- After inhalation:
- Supply fresh air and to be sure call for a doctor.
- 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.
- · 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.*

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• Methods an Absorb with Use neutral Dispose con Ensure ade • Reference to See Section See Section See Section	w to enter sewers/ surface or ground water. ad material for containment and cleaning up: a liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). lizing agent. ataminated material as waste according to item 13. quate ventilation. 50 other sections 7 for information on safe handling. 8 for information on personal protection equipment. 13 for disposal information. Action Criteria for Chemicals	(Contd. of page 3)
	3,6-diazaoctanethylenediamin	3 ppm
9046-10-0	Polyoxypropylenediamine	4.8 mg/m ³
· PAC-2:		
112-24-3	3,6-diazaoctanethylenediamin	14 ppm
9046-10-0	Polyoxypropylenediamine	53 mg/m ³
· PAC-3:		
112-24-3	3,6-diazaoctanethylenediamin	83 ppm
9046-10-0	Polyoxypropylenediamine	320 mg/m ³

7 Handling and storage

· Handling:

· Precautions for safe handling

Ensure good ventilation/exhaustion at the workplace. 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.

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· 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.
- Avoid contact with the eyes and skin.

• 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

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Information on basic physical and	chemical properties	
General Information		
Appearance:		
Form:	Liquid	
Color:	Amber colored	
Odor:	Amine-like	
Odor threshold:	Not determined.	
pH-value:	Not determined.	
Change in condition		
Melting point/Melting range:	Undetermined.	
Boiling point/Boiling range:	232 °C (449.6 °F)	
Flash point:	122 °C (251.6 °F)	
Flammability (solid, gaseous):	Not applicable.	
Ignition temperature:	335 °C (635 °F)	
Decomposition temperature:	Not determined.	
Auto igniting:	Product is not selfigniting.	
Danger of explosion:	Product does not present an explosion hazard.	
Explosion limits:		
Lower:	0.7 Vol %	
Upper:	6.7 Vol %	
Vapor pressure:	Not determined.	
Density at 20 °C (68 °F):	0.98 g/cm ³ (8.18 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/wat	er): 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 %	



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· 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

11 Toxicological information

· Information on toxicological effects

• Acute toxicity:

· LD/LC50 values that are relevant for classification:

112-24-3 3,6-diazaoctanethylenediamin

Oral LD50 2,000 mg/kg (rat)

Dermal LD50 2,000 mg/kg (rabbit)

9046-10-0 Polyoxypropylenediamine

Oral LD50 2,855 mg/kg (rabbit)

Dermal LD50 2,980 mg/kg (rabbit)

• Primary irritant effect:

• on the skin: Strong caustic effect on skin and mucous membranes.

• on the eye: Strong caustic effect.

• Sensitization: Sensitization possible through skin contact.

· Additional toxicological information:

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

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· OSHA-Ca (Occupational Safety & Health Administration)

None of the ingredients is listed.

12 Ecological information

· Toxicity

• Aquatic toxicity:

9046-10-0 Polyoxypropylenediamine

 48 hr EC50
 80 mg/l (daphnia)

 96 hr LC50
 772 mg/l (Fish)

72 or 96 hr ErC50 15 mg/l (Algea)

- · 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 3 (Self-assessment): extremely hazardous for water

Do not allow product to reach ground water, water course or sewage system, even in small quantities. Must not reach bodies of water or drainage ditch undiluted or unneutralized.

Danger to drinking water if even extremely small quantities leak into the ground.

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

· 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.

14 Transport information		
· UN-Number	NA2735	
·DOT	IVA2755	(Contd. on page



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IMDG, IATA	UN2735
UN proper shipping name	
DOT	Amines, liquid, corrosive, n.o.s. (Triethylenetetramine Polyoxypropylenediamine)
IMDG	A MINES, LIQUID, CORROSIVE, N.O.S (TRIETHYLENETETRAMINE, Polyoxypropylenediamine MARINE POLLUTANT
IATA	A MINES, LIQUID, CORROSIVE, N.O.S (TRIETHYLENETETRAMINE, Polyoxypropylenediamine)
Transport hazard class(es)	
DOT	
Class	8 Corrosive substances
Label	8
IMDG	
Class	8 Corrosive substances
Label	8
IATA	
Class	8 Corrosive substances
Label	8
Packing group	
DOT, IMDG, IATA	III
Environmental hazards:	Product contains environmentally hazardous substances Polyoxypropylenediamine
Marine pollutant:	Yes
	Symbol (fish and tree)
Special precautions for user	Warning: Corrosive substances
Hazard identification number (Kemler code):	
EMS Number:	F-A,S-B



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· Segregation groups	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
Quantity timuations	On cargo aircraft only: 30 L
· Remarks:	Special marking with the symbol (fish and tree).
· IMDG	
· Limited quantities (LQ)	1L
\cdot Excepted quantities (\widetilde{EQ})	Code: E2
1 1 2	Maximum net quantity per inner packaging: 30 ml
	Maximum net quantity per outer packaging: 500 ml
· UN ''Model Regulation'':	UN 2735 AMINES, LIQUID, CORROSIVE, N.O.S
	(TRIETHYLENETETRAMINE)
	POLYOXYPROPYLENEDIAMINE), 8, III, ENVIRONMENTALL HAZARDOUS

15 Regulatory information

 \cdot Safety, health and environmental regulations/legislation specific for the substance or mixture \cdot Sara

• 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.

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Trade name: SikaBiresin CH72-3 (MARINE 824 HARD)

· Proposition 65

· Chemicals known to cause cancer:

75-56-9 propylene oxide

· 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

· TLV (Threshold Limit Value established by ACGIH)

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*



· Signal word Danger

• Hazard-determining components of labeling: 3,6-diazaoctanethylenediamin Polyoxypropylenediamine Teta, reaction products with propylene oxide Polyoxylated Triethylenetetramine

• Hazard statements Causes severe skin burns and eye damage. May cause an allergic skin reaction.

· Precautionary statements

Do not breathe dusts or mists.

Wear protective gloves/protective clothing/eye protection/face protection.

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.

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Specific treatment (see on this label). 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.

· Date of preparation / last revision 05/21/2020 / 7

· Abbreviations and acronyms: IMDG: International Maritime Code for Dangerous Goods DOT: US Department of Transportation IATA: International Air Transport Association ACGIH: American Conference of Governmental Industrial Hygienists 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) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent 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 Skin Corr. 1A: Skin corrosion/irritation - Category 1A Skin Sens. 1: Skin sensitisation – Category 1 • * Data compared to the previous version altered.