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Safety Data Sheet acc. to OSHA HCS

CE Part # 20751-Quart Printing date 05/09/2020

Reviewed on 05/09/2020

1 Identification · Product identifier

- · Trade name: SikaBiresin CH94-1 (L141 FAST HARD)
- · Article number: I025956-4
- · Application of the substance / the mixture Epoxy curing agent
- · Details of the supplier of the safety data sheet Sika Advanced Resins, US EHS Department · Manufacturer/Supplier: Supplier's Name: Sika Advanced Resins, US *Headquarters:* 30800 Stephenson Hwy

advancedresins.ehs@us.sika.com

Madison Heights, MI 48071

USA

· Information department: Product safety department • Emergency telephone number: +1 (248) 588-2270 During normal opening times: CHEMTREC 24-hour Emergency: +1 (800) 424-9300

2 Hazard(s) identification

· Classification of the substance or mixture

GHS08 Health hazard

Repr. 2

H361 Suspected of damaging fertility or the unborn child.

GHS05 Corrosion

Skin Corr. 1B H314 Causes severe skin burns and eye damage.

Eye Dam. 1 H318 Causes serious eye damage.

GHS07

Acute Tox. 4 H302 Harmful if swallowed. Acute Tox. 4 H332 Harmful if inhaled.

Skin Sens. 1 H317 May cause an allergic skin reaction.

· Label elements

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

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(Contd. of page 1) · Hazard pictograms GHS05 GHS07 GHS08 · Signal word Danger · Hazard-determining components of labeling: 1,6-Hexanediamine, 2,2,4 (or 2,4,4)-trimethyl*m*-*phenylenebis*(*methylamine*) 4-tert-butylphenol 3-aminomethyl-3,5,5-trimethylcyclohexylamine · Hazard statements Harmful if swallowed or if inhaled. Causes severe skin burns and eye damage. May cause an allergic skin reaction. Suspected of damaging fertility or the unborn child. · Precautionary statements Avoid breathing dust/fume/gas/mist/vapors/spray Do not breathe dusts or mists. Wear protective gloves/protective clothing/eye protection/face protection. If swallowed: Call a poison center/doctor if you feel unwell. 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. Specific treatment (see on this label). Store locked up. Dispose of contents/container in accordance with local/regional/national/international regulations. · Classification system: · NFPA ratings (scale 0 - 4) Health = 3Fire = 1Reactivity = 0· HMIS-ratings (scale 0 - 4) HEALTH *3 Health = *3FIRE 1 Fire = 1**REACTIVITY** O Reactivity = 0 · Other hazards · Results of PBT and vPvB assessment · **PBT:** Not applicable. (Contd. on page 3)



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· vPvB: Not applicable.

3 Composition/information on ingredients

· Chemical characterization: Mixtures

 $\cdot \textit{Description: Mixture of the substances listed below with nonhazardous additions.}$

· Dangerous compone	ents:	
CAS: 25513-64-8 EINECS: 247-134-8	1,6-Hexanediamine, 2,2,4 (or 2,4,4)-trimethyl-	<i>≥</i> 25- <i>≤</i> 50%
CAS: 98-54-4 EINECS: 202-679-0	4-tert-butylphenol	10-20%
CAS: 1477-55-0 EINECS: 216-032-5	m-phenylenebis(methylamine)	10-20%
CAS: 2579-20-6 EINECS: 219-941-5	1,3-Cyclohexanedimethanamine	10-20%
CAS: 2855-13-2 EINECS: 220-666-8	3-aminomethyl-3,5,5-trimethylcyclohexylamine	10-20%
CAS: 90-72-2 EINECS: 202-013-9	2,4,6-tris(dimethylaminomethyl)phenol	1-5%

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 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:
- Immediately call a doctor.

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.

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5 Fire-fighting measures

- · Extinguishing media
- Suitable extinguishing agents: Use fire fighting measures that suit the environment.
- \cdot Special hazards arising from the substance or mixture
- During heating or in case of fire poisonous gases are produced.
- \cdot 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, sawdust).	
Use neutralizing agent.	
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:	
98-54-4 4-tert-butylphenol	1.5 mg/m ³
90-72-2 2,4,6-tris(dimethylaminomethyl)phenol	6.5 mg/m³
· PAC-2:	
98-54-4 4-tert-butylphenol	40 mg/m ³
90-72-2 2,4,6-tris(dimethylaminomethyl)phenol	72 mg/m ³
· PAC-3:	•
98-54-4 4-tert-butylphenol	240 mg/m³
90-72-2 2,4,6-tris(dimethylaminomethyl)phenol	430 mg/m³
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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 product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

- 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.

· 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.

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Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation • 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	chemical properties	
General Information Appearance:		
Form:	Liquid	
Color:	Light amber	
Odor:	Amine-like	
Odor threshold:	Not determined.	
pH-value:	Not determined.	
Change in condition		
Melting point/Melting range:	Undetermined.	
Boiling point/Boiling range:	>200 °C (>392 °F)	
Flash point:	110 °C (230 °F)	
Flammability (solid, gaseous):	Not applicable.	
Ignition temperature:	510 °C (950 °F)	
Decomposition temperature:	Not determined.	
Auto igniting:	Product is not selfigniting.	
Danger of explosion:	Product does not present an explosion hazard.	
Explosion limits:		
Lower:	Not determined.	
Upper:	Not determined.	
Vapor pressure:	Not determined.	
Density at 20 °C (68 °F):	0.92 g/cm ³ (7.68 lbs/gal)	



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· Relative density	Not determined.	
· Vapor density	Not determined.	
· Evaporation rate	Not determined.	
· Solubility in / Miscibility with	la de la constante de la consta	
Water:	Fully miscible.	
· Partition coefficient (n-octan	ol/water): 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:	35.0 %	
• 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

11 Toxicological information

· Information on toxicological effects

· Acute toxicity:

· LD/LC50	· LD/LC50 values that are relevant for classification:		
25513-64-	•8 1,6-He.	xanediamine, 2,2,4 (or 2,4,4)-trimethyl-	
Oral	LD50	900 mg/kg (rat)	
98-54-4 4	-tert-buty	lphenol	
Oral	LD50	2,951 mg/kg (rat)	
Dermal	LD50	2,288 mg/kg (rabbit)	
1477-55-0) m-pheny	vlenebis(methylamine)	
Oral	LD50	1,040 mg/kg (rat)	
Dermal	LD50	2,000 mg/kg (rabbit)	
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Inhalative	e LC50/4	h 2.4 mg/l (rat)
2855-13-2	2 3-amino	methyl-3,5,5-trimethylcyclohexylamine
Oral	LD50	1,030 mg/kg (rat)
Dermal	LD50	2,000 mg/kg (rat)
on the ey Strong ca Strong irr Sensitizat Additiona The produ Harmful Corrosive Irritant	in: Causti e: ustic effec itant with tion: Sens al toxicolo uct shows e ng will lec	c effect on skin and mucous membranes.
Carcinog	enic categ	ories
IARC (In	ternation	al Agency for Research on Cancer)
None of t	he ingredi	ents is listed.
NTP (Na	tional Tox	cicology Program)
		ents is listed.
OSHA_C	α (Ωεευρο	tional Safety & Health Administration)
	_	ents is listed.
	ne ingredi	enis is listea.

12 Ecological information

· Toxicity

• Aquatic toxicity:			
25513-64-8 1,6-Не	25513-64-8 1,6-Hexanediamine, 2,2,4 (or 2,4,4)-trimethyl-		
72 or 96 hr ErC50	43.5 mg/l (Algea)		
NOEC	16 mg/l (Algea)		
98-54-4 4-tert-buty	98-54-4 4-tert-butylphenol		
48 hr EC50	3.4 mg/l (daphnia)		
96 hr LC50	4.71 mg/l (Fathead minnow)		
1477-55-0 m-phen	ylenebis(methylamine)		
72 or 96 hr ErC50	12 mg/l (Chaetogammarus marinus)		
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2855-13-2 3-amin	omethyl-3,5,5-trimethylcy	clohexylamine
96 hr LC50	110 mg/l (Fish)	
NOEC	3 mg/l (daphnia)	
Persistence and de	gradability No further rel	evant information available.
Behavior in enviro		
	otential No further releva	
	further relevant informat	ion available.
Additional ecologi	cal information:	
General notes:	0 (0 1)	
	2 (Self-assessment): haza	
		, water course or sewage system.
		ditch undiluted or unneutralized. tities leak into the ground.
Results of PBT an		unes ieuk into me grouna.
PBT: Not applical		
vPvB: Not applicat		
	c ts No further relevant inf	formation available.
Uncleaned packag Recommendation:	ethods ed of together with housel ings: Disposal must be made a	hold garbage. Do not allow product to reach sewage system. ccording to official regulations. ecessary with cleansing agents.
Transport info	mation	
DOT, IMDG, IAT	4	UN1760
UN proper shippin DOT	g name	Corrosive liquids, n.o.s. (m-phenylenebis(methylamine) Trimethylhexamethylenediamines)
IMDG, IATA		CORROSIVE LIQUID, N.O.S. (m-phenylenebis(methylamine)

TRIMETHYLHEXAMETHYLENEDIAMINES)

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T	(Contd. of pa
Transport hazard class(es)	
DOT	
Class	8 Corrosive substances
Label	8
IMDG, IATA	
Class	8 Corrosive substances
Label	8
Packing group	
DOT, IMDG, IATA	111
Environmental hazards:	Not applicable.
Special precautions for user	Warning: Corrosive substances
Hazard identification number (Kemler code).	
EMS Number:	F-A,S-B
Segregation groups	Alkalis
Stowage Category	A
Stowage Code	SW2 Clear of living quarters.
Transport in bulk according to Annex II of	
MARPOL73/78 and the IBC Code	Not applicable.
Transport/Additional information:	
DOT Organtity limitations	On passanaan ainanaft/nail, 5 I
Quantity limitations	On passenger aircraft/rail: 5 L
	On cargo aircraft only: 60 L
IMDG	
Limited quantities (LQ)	5L
Excepted quantities (EQ)	Code: E1
	Maximum net quantity per inner packaging: 30 ml
	Maximum net quantity per outer packaging: 1000 ml
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	. 10 /
· UN "Model Regulation":	UN 1760 CORROSIVE LIQUID, N.O.S. (M-
-	PHENYLENEBIS (METHYLAMINE),
	TRIMETHYLHEXAMETHYLENEDIAMINES), 8, 111,
	ENVIRONMENTALLY 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.
- · 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 established by ACGIH)
- None of the ingredients is listed.

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(Contd. of page 11) · 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 GHS05 GHS07 GHS08 · Signal word Danger · Hazard-determining components of labeling: 1,6-Hexanediamine, 2,2,4 (or 2,4,4)-trimethyl*m*-*phenylenebis*(*methylamine*) 4-tert-butylphenol 3-aminomethyl-3,5,5-trimethylcyclohexylamine · Hazard statements Harmful if swallowed or if inhaled. Causes severe skin burns and eye damage. May cause an allergic skin reaction. Suspected of damaging fertility or the unborn child. · Precautionary statements Do not breathe dusts or mists. Wear protective gloves/protective clothing/eye protection/face protection. If swallowed: Call a poison center/doctor if you feel unwell. 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. Specific treatment (see on this label). 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 05/09/2020 / 1
- Abbreviations and acronyms: IMDG: International Maritime Code for Dangerous Goods

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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
Acute Tox. 4: Acute toxicity – Category 4
Skin Corr. 1B: Skin corrosion/irritation – Category 1B
Eye Dam. 1: Serious eye damage/eye irritation – Category 1
Skin Sens. 1: Skin sensitisation – Category 1
Repr. 2: Reproductive toxicity – Category 2
• * Data compared to the previous version altered.