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# Safety Data Sheet acc. to OSHA HCS

## Printing date 05/11/2020

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Reviewed on 05/11/2020

	0 <b>n</b>			
Product iden	ifier			
Trade name:	SikaBiresin CH86-2 (I	ROINFUSION FAST	HARD)	
	er: 1025956-2 f the substance / the m	<b>xture</b> Epoxy curing age	nt	
Sika Advance EHS Departn <b>Manufacture</b> Supplier's Na Headquarters 30800 Stephe	eent <b>r/Supplier:</b> me: Sika Advanced Res :			
advancedresi	ns.ehs@us.sika.com			
<b>Emergency to</b> During norm	<b>lepartment:</b> Product sa <b>lephone number:</b> Il opening times: 24-hour Emergency: -	+1 (248) 588-2270		
	24-nour Emergency.	1 (800) 424-9500		
Hazard(s)	dentification			
Hazard(s) Classification				
Hazard(s) Classification	dentification of the substance or ma 1808 Health hazard		nborn child.	
Hazard(s) Classification GH Repr. 2	dentification of the substance or ma 1808 Health hazard	xture	nborn child.	
Hazard(s) Classification GH Repr. 2 GH	dentification of the substance or ma ISO8 Health hazard H361 Suspected of da ISO5 Corrosion	xture		
Hazard(s) Classification GH Repr. 2 GH	dentification of the substance or ma ISO8 Health hazard H361 Suspected of da ISO5 Corrosion	<b>xture</b> maging fertility or the u kin burns and eye dama		
Hazard(s) Classification GH Repr. 2 Skin Corr. 1E Eye Dam. 1	dentification of the substance or ma ISO8 Health hazard H361 Suspected of da ISO5 Corrosion H314 Causes severe	<b>xture</b> maging fertility or the u kin burns and eye dama		
Hazard(s) Classification GH Repr. 2 Skin Corr. 1E Eye Dam. 1	dentification of the substance or ma 1508 Health hazard H361 Suspected of da 1505 Corrosion H314 Causes severe s H318 Causes serious	<b>xture</b> maging fertility or the u kin burns and eye dama eye damage.		
Hazard(s) Classification GH Repr. 2 GH Skin Corr. 1E Eye Dam. 1 Corr. 4	dentification of the substance or ma 1508 Health hazard H361 Suspected of da 1505 Corrosion H314 Causes severe s H318 Causes serious	<b>xture</b> maging fertility or the u kin burns and eye dama eye damage. lowed.		
Hazard(s) Classification GH Repr. 2 GH Skin Corr. 1E Eye Dam. 1 Corr. 4	dentification of the substance or ma 1508 Health hazard H361 Suspected of da 1505 Corrosion H314 Causes severe a H318 Causes serious 1507 H302 Harmful if swa	xture maging fertility or the u kin burns and eye dama eye damage. lowed.		



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#### Trade name: SikaBiresin CH86-2 (PROINFUSION FAST HARD)

Hazard pictograms	(Contd. of page
$ \land \land$	
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 wate	er/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, i	if present and easy to d
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 r	egulations.
Classification system:	0
NFPA ratings (scale 0 - 4)	
Health = 3	
Fire = 1	
$\begin{array}{c} 3 \\ \end{array} \begin{array}{c} 0 \\ Reactivity = 0 \end{array}$	
HMIS-ratings (scale 0 - 4)	
$\begin{array}{c} \text{HEALTH}  \text{*3} \\ \text{Health} = *3 \\ \text{Health} = *$	
FIRE 1 $Fire = 1$	
<b>REACTIVITY</b> $0$ Reactivity = 0	
Other hazards	
Results of PBT and vPvB assessment	
<b><i>PBT:</i></b> Not applicable.	
<u>.</u> .	(Contd. on page



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### Trade name: SikaBiresin CH86-2 (PROINFUSION FAST HARD)

#### · 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 <sup>3</sup>
90-72-2 2,4,6-tris(dimethylaminomethyl)phenol	6.5 mg/m <sup>3</sup>
• PAC-2:	
98-54-4 4-tert-butylphenol	40 mg/m <sup>3</sup>
90-72-2 2,4,6-tris(dimethylaminomethyl)phenol	72 mg/m <sup>3</sup>
· PAC-3:	· ·
98-54-4 4-tert-butylphenol	240 mg/m <sup>3</sup>
90-72-2 2,4,6-tris(dimethylaminomethyl)phenol	430 mg/m <sup>3</sup>

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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:



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Tightly sealed goggles

Information on basic physical and General Information	chemical properties	
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 <sup>3</sup> (7.68 lbs/gal)	



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· Relative density	Not determined.	
· Vapor density	Not determined.	
· Evaporation rate	Not determined.	
· Solubility in / Miscibility with		
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	values th	at 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	0 m-phen	ylenebis(methylamine)
Oral	LD50	1,040 mg/kg (rat)
Dermal	LD50	2,000 mg/kg (rabbit)
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#### Trade name: SikaBiresin CH86-2 (PROINFUSION FAST HARD)

Inhalative	LC50/4 h	(Contd. of page 7
		nethyl-3,5,5-trimethylcyclohexylamine
Oral	LD50	1,030 mg/kg (rat)
Dermal	LD50	2,000 mg/kg (rat)
· Primary in	rritant effe	
-		effect on skin and mucous membranes.
• on the eye	:	
Strong cai		
		the danger of severe eye injury.
<ul> <li>Sensitizati</li> </ul>	i <b>on:</b> Sensit	ization possible through skin contact.
· Additiona	l toxicolog	rical information:
The produ	ct shows th	he following dangers according to internally approved calculation methods for preparations:
Harmful		
Corrosive		
Irritant		
Swallowin	g will lead	l to a strong caustic effect on mouth and throat and to the danger of perforation of esophagu
and stoma	ch.	
· Carcinoge	enic catego	pries
· IARC (Int	ernational	l Agency for Research on Cancer)
None of th	e ingredie	nts is listed.
· NTP (Nat	ional Toxi	cology Program)
None of th	e ingredie	nts is listed.
· OSHA-Ca	(Occupat	ional Safety & Health Administration)
None of th	e ingredie	nts is listed.

# **12 Ecological information**

## · Toxicity

• Aquatic toxicity:			
25513-64-8 1,6-Hexanediamine, 2,2,4 (or 2,4,4)-trimethyl-			
72 or 96 hr ErC50	0 43.5 mg/l (Algea)		
NOEC	16 mg/l (Algea)		
98-54-4 4-tert-bu	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-phenylenebis(methylamine)			
72 or 96 hr ErC50	0 12 mg/l (Chaetogammarus marinus)		
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#### Trade name: SikaBiresin CH86-2 (PROINFUSION FAST HARD)

55-13-2 3-aminomethyl-3,5,5-trimethyl         Inr LC50       110 mg/l (Fish)         DEC       3 mg/l (daphnia)         rsistence and degradability No further relevant in environmental systems:         oaccumulative potential No further relevant inform         bility in soil No further relevant inform         ditional ecological information:         emeral notes:         ater hazard class 2 (Self-assessment): have not reach bodies of water or drainag         onot allow product to reach ground wat         ust not reach bodies of water or drainag         usger to drinking water if even small quase         sults of PBT and vPvB assessment         ST: Not applicable.         her adverse effects No further relevant in         isposal considerations	relevant information available. evant information available. nation available. azardous for water ter, water course or sewage system. ge ditch undiluted or unneutralized. antities leak into the ground.
DEC 3 mg/l (daphnia) rsistence and degradability No further of thavior in environmental systems: oaccumulative potential No further relevant obility in soil No further relevant inform ditional ecological information: meral notes: ater hazard class 2 (Self-assessment): has o not allow product to reach ground wat ust not reach bodies of water or drainag inger to drinking water if even small que sults of PBT and vPvB assessment BT: Not applicable. ber adverse effects No further relevant and be adverse effects No further relevant and be adverse effects No further relevant and be adverse effects No further relevant and and the adverse effects No further relevant and the adverse effects and the	evant information available. nation available. azardous for water ter, water course or sewage system. ge ditch undiluted or unneutralized. antities leak into the ground.
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sults of PBT and vPvB assessment BT: Not applicable. VB: Not applicable. her adverse effects No further relevant to	
<b>3T:</b> Not applicable. <b>vB:</b> Not applicable. <b>her adverse effects</b> No further relevant t	information available.
<b>vB:</b> Not applicable. <b>her adverse effects</b> No further relevant t	information available.
her adverse effects No further relevant to	information available.
	information available.
sposal considerations	
aste treatment methods commendation: ust not be disposed of together with hous ncleaned packagings: commendation: Disposal must be made commended cleansing agent: Water, if	
ransport information	,
N-Number	
OT, IMDG, IATA	UN1760
N proper shipping name	
T OT	Corrosive liquids, n.o.s. (m-phenylenebis(methylamine)
· •	Trimethylhexamethylenediamines)
	I rimeinvinexameinvieneaiamines)

TRIMETHYLHEXAMETHYLENEDIAMINES)

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Transport hazard class(es)	
DOT	
$\wedge$	
8	
$\mathbf{V}$	
· Class	8 Corrosive substances
- Label	8
· IMDG, IATA	
$\hat{\wedge}$	
$\mathbf{V}$	
· Class	8 Corrosive substances
· Label	8
Packing group	
· DOT, IMDG, IATA	III
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	
Quantity limitations	On passenger aircraft/rail: 5 L
	On cargo aircraft only: 60 L
IMDG	
Limited quantities (LQ)	5L
Excepted quantities (EQ)	Code: El
	Maximum net quantity per inner packaging: 30 ml
	Maximum net quantity per outer packaging: 1000 ml
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· 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 05/11/2020 / 5
- Abbreviations and acronyms: IMDG: International Maritime Code for Dangerous Goods

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Trade name: SikaBiresin CH86-2 (PROINFUSION FAST HARD)

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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.

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