



Page 1/14

CE Part # 20617-Gallon

Safety Data Sheet acc. to OSHA HCS

Printing date 05/11/2020 Reviewed on 05/11/2020

1 Identification

- · Product identifier
- · Trade name: SikaBiresin CH86-3 (PROINFUSION MED HARD)
- · Article number: I025962-2
- · 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 Madison Heights, MI 48071

USA

advancedresins.ehs@us.sika.com

- · 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

H361 Suspected of damaging fertility or the unborn child. Repr. 2



GHS05 Corrosion

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

Eye Dam. 1 H318 Causes serious eye damage.



Acute Tox. 4 H302 Harmful if swallowed.

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). (Contd. on page 2)



Page 2/14

Safety Data Sheet acc. to OSHA HCS

Printing date 05/11/2020 Reviewed on 05/11/2020

Trade name: SikaBiresin CH86-3 (PROINFUSION MED HARD)

(Contd. of page 1)

· Hazard pictograms







GHS05

GHS07

GHS08

· Signal word Danger

· Hazard-determining components of labeling:

3-aminomethyl-3,5,5-trimethylcyclohexylamine

4-tert-butylphenol

Polyoxypropylenediamine

1,6-Hexanediamine, 2,2,4 (or 2,4,4)-trimethyl-

m-phenylenebis(*methylamine*)

· Hazard statements

Harmful if swallowed.

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

Fire = 1

(Contd. on page 3)





Page 3/14

Safety Data Sheet acc. to OSHA HCS

Printing date 05/11/2020 Reviewed on 05/11/2020

Trade name: SikaBiresin CH86-3 (PROINFUSION MED HARD)

(Contd. of page 2)

- · 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 compone	ents:	
CAS: 9046-10-0	Polyoxypropylenediamine	20-50%
CAS: 2855-13-2 EINECS: 220-666-8	3-aminomethyl-3,5,5-trimethylcyclohexylamine	≥25-≤50%
CAS: 25513-64-8 EINECS: 247-134-8	1,6-Hexanediamine, 2,2,4 (or 2,4,4)-trimethyl-	10-20%
CAS: 98-54-4 EINECS: 202-679-0	4-tert-butylphenol	≥5-<10%
CAS: 1477-55-0 EINECS: 216-032-5	m-phenylenebis(methylamine)	5-10%
CAS: 2579-20-6 EINECS: 219-941-5	1,3-Cyclohexanedimethanamine	5-10%
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.

(Contd. on page 4)



Page 4/14

Safety Data Sheet acc. to OSHA HCS

Printing date 05/11/2020 Reviewed on 05/11/2020

Trade name: SikaBiresin CH86-3 (PROINFUSION MED HARD)

(Contd. of page 3)

· 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, 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

1101001110	Tetton Cruciu joi Chemicus	
· <i>PAC-1</i> :		
9046-10-0	Polyoxypropylenediamine	4.8 mg/m
98-54-4	4-tert-butylphenol	1.5 mg/m
90-72-2	2,4,6-tris(dimethylaminomethyl)phenol	6.5 mg/m
· PAC-2:		
9046-10-0	Polyoxypropylenediamine	53 mg/m
98-54-4	4-tert-butylphenol	40 mg/m
90-72-2	2,4,6-tris(dimethylaminomethyl)phenol	72 mg/m
		(Contd. on page

US-





Page 5/14

Safety Data Sheet acc. to OSHA HCS

Printing date 05/11/2020 Reviewed on 05/11/2020

Trade name: SikaBiresin CH86-3 (PROINFUSION MED HARD)

(Contd.	of	page	4)
---------	----	------	----

· PAC-3:	·	onital of page 1)
9046-10-0	Polyoxypropylenediamine	320 mg/m³
98-54-4	4-tert-butylphenol	240 mg/m³
90-72-2	2,4,6-tris(dimethylaminomethyl)phenol	430 mg/m³

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.

 ${\it Store protective clothing separately}.$

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.

(Contd. on page 6)

IIS





Page 6/14

Safety Data Sheet acc. to OSHA HCS

Printing date 05/11/2020 Reviewed on 05/11/2020

Trade name: SikaBiresin CH86-3 (PROINFUSION MED HARD)

(Contd. of page 5)

· 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

· 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

9 Physical and chemical properties

- · 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.

(Contd. on page 7)



Page 7/14

Safety Data Sheet acc. to OSHA HCS

Printing date 05/11/2020 Reviewed on 05/11/2020

Trade name: SikaBiresin CH86-3 (PROINFUSION MED HARD)

		(Contd. of page
· Auto igniting:	Product is not selfigniting.	
· Danger of explosion:	Product does not present an explosion hazard.	
· Explosion limits:		
Lower:	0.7 Vol %	
Upper:	5 Vol %	
· Vapor pressure:	Not determined.	
· Density at 20 °C (68 °F):	0.92 g/cm³ (7.68 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/we	ater): 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:	12.8 %	
· 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

HS



Page 8/14

Safety Data Sheet acc. to OSHA HCS

Printing date 05/11/2020 Reviewed on 05/11/2020

Trade name: SikaBiresin CH86-3 (PROINFUSION MED HARD)

(Contd. of page 7)

11 Toxicological information

- · Information on toxicological effects
- · Acute toxicity:

· LD/LC50	· LD/LC50 values that are relevant for classification:					
9046-10-0	9046-10-0 Polyoxypropylenediamine					
Oral	LD50	2,855 mg/kg (rabbit)				
Dermal	LD50	2,980 mg/kg (rabbit)				
2855-13-2	3-aminom	nethyl-3,5,5-trimethylcyclohexylamine				
Oral	LD50	1,030 mg/kg (rat)				
Dermal	LD50	2,000 mg/kg (rat)				
25513-64-	25513-64-8 1,6-Hexanediamine, 2,2,4 (or 2,4,4)-trimethyl-					
Oral	LD50	900 mg/kg (rat)				
98-54-4 4-	tert-butylp	henol				
Oral	LD50	2,951 mg/kg (rat)				
Dermal	LD50	2,288 mg/kg (rabbit)				
1477-55-0	m-phenyle	enebis(methylamine)				
Oral	LD50	1,040 mg/kg (rat)				
Dermal	LD50	2,000 mg/kg (rabbit)				
Inhalative	LC50/4 h	2.4 mg/l (rat)				

- · Primary irritant effect:
- · on the skin: Strong caustic effect on skin and mucous membranes.
- · on the eye:

Strong caustic effect.

Strong irritant with the danger of severe eye injury.

- $\cdot \textbf{\textit{Sensitization:}} \ Sensitization\ possible\ through\ skin\ contact.$
- · 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.

(Contd. on page 9)



Page 9/14

Safety Data Sheet acc. to OSHA HCS

Printing date 05/11/2020 Reviewed on 05/11/2020

Trade name: SikaBiresin CH86-3 (PROINFUSION MED HARD)

(Contd. of page 8)

· OSHA-Ca (Occupational Safety & Health Administration)

None of the ingredients is listed.

12 Ecological information

· Toxicity

· Toxicity						
· Aquatic 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)					
2855-13-2 3-amino	omethyl-3,5,5-trimethylcyclohexylamine					
96 hr LC50	110 mg/l (Fish)					
NOEC	3 mg/l (daphnia)					
25513-64-8 1,6-Не	exanediamine, 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	lphenol					
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)					

- · 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.
- · Other adverse effects No further relevant information available.

US



Page 10/14

Safety Data Sheet acc. to OSHA HCS

Printing date 05/11/2020 Reviewed on 05/11/2020

Trade name: SikaBiresin CH86-3 (PROINFUSION MED HARD)

(Contd. of page 9)

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.

-										r							
- //	71		σ_{π}	1 C	\mathbf{r}	$\boldsymbol{\alpha}$	73	-	6	to	125	11	α	7		56	١
	-	ra	u	ω	v	v	$I \iota \iota$	•	11	L.		II.	ш	u	IJ,	"	
_					т.				т,								

· UN-Number	
· DOT. IMDG. IATA	UN1760

· UN proper shipping name

· DOT Corrosive liquids, n.o.s. (Polyoxypropylenediamine, m-

phenylenebis(methylamine))

· IMDG CORROSIVE LIQUID, N.O.S. (Polyoxypropylenediamine, m-phenylenebis(methylamine)), MARINE POLLUTANT

· IATA CORROSIVE LIQUID, N.O.S. (Polyoxypropylenediamine, m-phenylenebis(methylamine))

· Transport hazard class(es)

 $\cdot DOT$





· Class· Label8 Corrosive substances8

· IMDG





ClassLabel8 Corrosive substances8

(Contd. on page 11)

BUILDING TRUST



Page 11/14

Safety Data Sheet acc. to OSHA HCS

Printing date 05/11/2020 Reviewed on 05/11/2020

Trade name: SikaBiresin CH86-3 (PROINFUSION MED HARD)

	(Contd. of page
IATA	
Class	8 Corrosive substances
Label	8
Packing group	
DOT, IMDG, IATA	III
Environmental hazards:	Product contains environmentally hazardous substance
	Polyoxypropylenediamine
Marine pollutant:	Yes (DOT)
	Symbol (fish and tree)
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
2 y	On cargo aircraft only: 60 L
Remarks:	Special marking with the symbol (fish and tree).
<i>IMDG</i>	
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
UN "Model Regulation":	UN 1760 CORROSIVE LIQUID, N.O.
0	(POLYOXYPROPYLENEDIAMINE, M
	PHENYLENEBIS (METHYLAMINE)), 8, 11

ENVIRONMENTALLY HAZARDOUS

US ·



Page 12/14

Safety Data Sheet acc. to OSHA HCS

Printing date 05/11/2020 Reviewed on 05/11/2020

Trade name: SikaBiresin CH86-3 (PROINFUSION MED HARD)

(Contd. of page 11)

15 Regulatory information

- · Safety, health and environmental regulations/legislation specific for the substance or mixture
- · 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:

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). (Contd. on page 13)

– us



Page 13/14

Safety Data Sheet acc. to OSHA HCS

Printing date 05/11/2020 Reviewed on 05/11/2020

Trade name: SikaBiresin CH86-3 (PROINFUSION MED HARD)

(Contd. of page 12)

· Hazard pictograms







GHS05

GHS07

GHS08

· Signal word Danger

· Hazard-determining components of labeling:

3-aminomethyl-3,5,5-trimethylcyclohexylamine

4-tert-butylphenol

Polyoxypropylenediamine

1,6-Hexanediamine, 2,2,4 (or 2,4,4)-trimethyl-

m-phenylenebis(*methylamine*)

· Hazard statements

Harmful if swallowed.

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 / 10
- · 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)

(Contd. on page 14)

Page 14/14

Safety Data Sheet acc. to OSHA HCS

Printing date 05/11/2020 Reviewed on 05/11/2020

Trade name: SikaBiresin CH86-3 (PROINFUSION MED HARD)

(Contd. of page 13)

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. 1A: Skin corrosion/irritation – Category 1A 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.

us.