

Page 1/12

Safety Data Sheet acc. to OSHA HCS

Printing date 10/19/2021

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Reviewed on 10/19/2021

	lentifier
Trade nan	ne: <u>TCC410 Resin</u>
Article nu	mber: 1410088
• Applicatio	on of the substance / the mixture Epoxy resin
	the supplier of the safety data sheet
Sika Adva EHS Depa	nced Resins, US
	turer/Supplier:
Manufacti	
	nced Resins
30800 Ste Madison I	phenson Hwy
MI 48071	Teignis
USA	
Informati	on department: Product safety department
· Emergenc	cy telephone number:
	rmalopening times: +1 (248) 588-2270
CHEMIK	EC 24-hour Emergency: +1 (800) 424-9300
Hazard((s) identification
	(s) identification tion of the substance or mixture
	tion of the substance or mixture
	tion of the substance or mixture
Classifica	tion of the substance or mixture GHS08 Health hazard
Classifica	tion of the substance or mixture GHS08 Health hazard H350 May cause cancer.
Classifica	tion of the substance or mixture GHS08 Health hazard
Classifica	tion of the substance or mixture GHS08 Health hazard H350 May cause cancer. GHS07
Classifica Carc. 1A Carc. Skin Irrit.	tion of the substance or mixture GHS08 Health hazard H350 May cause cancer. GHS07 2 H315 Causes skin irritation.
Classifica Carc. 1A Carc. 1A Skin Irrit. Eye Irrit.	tion of the substance or mixture GHS08 Health hazard H350 May cause cancer. GHS07 2 H315 Causes skin irritation. 2A H319 Causes serious eye irritation.
Classifica Carc. 1A Carc. 1A Skin Irrit. Eye Irrit. Skin Sens.	 tion of the substance or mixture GHS08 Health hazard H350 May cause cancer. GHS07 2 H315 Causes skin irritation. 2A H319 Causes serious eye irritation. 1 H317 May cause an allergic skin reaction.
Classifica Carc. 1A Carc. 1A Skin Irrit. Eye Irrit. Skin Sens.	 tion of the substance or mixture GHS08 Health hazard H350 May cause cancer. GHS07 2 H315 Causes skin irritation. 2A H319 Causes serious eye irritation. 1 H317 May cause an allergic skin reaction.
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Reviewed on 10/19/2021

Page 2/12

Safety Data Sheet acc. to OSHA HCS

Printing date 10/19/2021

Trade name: TCC410 Resin

(Contd. of page 1) · Hazard-determining components of labeling: Reaction Product of Bisphenol A and Epichlorohydrin Quartz (SiO2) oxirane, mono[(C12-14-alkyloxy)methyl] derivs Alkyl C12-C14 Glycidyl Ether Polyglycol epichlorohydrin polymer · Hazard statements Causes skin irritation. Causes serious eye irritation. May cause an allergic skin reaction. May cause 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. Avoid breathing dust/fume/gas/mist/vapors/sprav Wash thoroughly after handling. Contaminated work clothing must not be allowed out of the workplace. Wear protective gloves/protective clothing/eye protection/face protection. *If on skin: Wash with plenty of water.* If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. IF exposed or concerned: Get medical advice/attention. Specific treatment (see on this label). Take off contaminated clothing and wash it before reuse. If skin irritation or rash occurs: Get medical advice/attention. If eye irritation persists: Get medical advice/attention. Wash contaminated clothing before reuse. Store locked up. Dispose of contents/container in accordance with local/regional/national/international regulations. · Classification system: · NFPA ratings (scale 0 - 4) *Health* = 2Fire = 1Reactivity = 0· HMIS-ratings (scale 0 - 4) HEALTH *Health* = *2FIRE 1 Fire = l**REACTIVITY O** Reactivity = 0· Other hazards · Results of PBT and vPvB assessment · **PBT:** Not applicable. (Contd. on page 3)

211



Page 3/12

(Contd. of page 2)

Safety Data Sheet acc. to OSHA HCS

Printing date 10/19/2021

Reviewed on 10/19/2021

Trade name: TCC410 Resin

• **vPvB:** Not applicable.

3 Composition/information on ingredients

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

· Dangerous components:		
CAS: 25068-38-6 NLP: 500-033-5	Reaction Product of Bisphenol A and Epichlorohydrin	20-50%
	oxirane, mono[(C12-14-alkyloxy)methyl] derivs Alkyl C12-C14 Glycidyl Ether	≥5-<10%
CAS: 41638-13-5	Polyglycol epichlorohydrin polymer	1-5%
CAS: 14808-60-7 EINECS: 238-878-4	Quartz (SiO2)	0.1-1%

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. If symptoms persist, consult a doctor.
- *After swallowing: If symptoms persist consult 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 No further relevant information available.
- · Advice for firefighters
- · Protective equipment: Wear self-contained respiratory protective device.

(Contd. on page 4)

US



Page 4/12

(Contd. of page 3)

Safety Data Sheet acc. to OSHA HCS

Printing date 10/19/2021

Reviewed on 10/19/2021

Trade name: TCC410 Resin

• 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 Not required.	
· 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)	
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:	
25068-38-6 Reaction Product of Bisphenol A and Epichlorohydrin	$90 mg/m^3$
14808-60-7 Quartz (SiO2)	$0.075 \ mg/m^3$
· PAC-2:	
25068-38-6 Reaction Product of Bisphenol A and Epichlorohydrin	990 mg/m ³
14808-60-7 Quartz (SiO2)	33 mg/m ³
• PAC-3:	
25068-38-6 Reaction Product of Bisphenol A and Epichlorohydrin	$5,900 \text{ mg/m}^3$
14808-60-7 Quartz (SiO2)	200 mg/m ³

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.

(Contd. on page 5)

[—] US



Page 5/12

(Contd. of page 4)

Safety Data Sheet acc. to OSHA HCS

Printing date 10/19/2021

Trade name: TCC410 Resin

• *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 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 · *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.

(Contd. on page 6)

US -

Reviewed on 10/19/2021

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Page 6/12

Safety Data Sheet acc. to OSHA HCS

Printing date 10/19/2021

Reviewed on 10/19/2021

(Contd. on page 7)

US

Trade name: TCC410 Resin

· Ignition temperature:

Danger of explosion:

• Density at 20 °C (68 °F):

· Solubility in / Miscibility with

· Partition coefficient (n-octanol/water): Not determined.

• Explosion limits: Lower:

· Relative density

• Evaporation rate

· Vapor density

Water:

· Viscosity: Dynamic:

• Auto igniting:

Upper: • Vapor pressure:

• Decomposition temperature:

(Contd. of page 5) • Eve protection: Tightly sealed goggles 9 Physical and chemical properties · Information on basic physical and chemical properties · General Information · Appearance: Form: Viscous Color: Silver grey Amine-like · Odor: · Odor threshold: Not determined. · pH-value: Not determined. · Change in condition *Melting point/Melting range:* Undetermined. *Boiling point/Boiling range:* 2,500 °C (36.500 °F) · Flash point: 150 °C (302 °F) · Flammability (solid, gaseous): Not applicable.

400 °C (752 °F)

Not determined.

Not determined. Not determined.

Not determined.

Not determined. Not determined.

Not determined.

Fully miscible.

Not determined.

Product is not selfigniting.

1.95 g/cm³ (16.27 lbs/gal)

Product does not present an explosion hazard.



Page 7/12

Safety Data Sheet acc. to OSHA HCS

Printing date 10/19/2021

Reviewed on 10/19/2021

Trade name: TCC410 Resin

		(Contd. of page 6)
Kinematic:	Not determined.	
• Solvent content: Organic solvents: VOC content:	0.4 % 0.38 % 7.4 g/l / 0.06 lb/gal	
Solids content:	61.5 %	
• 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:
- Primary irritant effect:
- \cdot on the skin: Irritant to skin and mucous membranes.
- on the eye: Irritating effect.
- Sensitization: Sensitization possible through skin contact.
- Additional toxicological information:

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

· Carcinogenic categories

- · IARC (International Agency for Research on Cancer)
- 14807-96-6 Talc (Mg3H2(SiO3)4)

14808-60-7 Quartz (SiO2)

·NTP (National Toxicology Program)

14808-60-7 Quartz (SiO2)

· OSHA-Ca (Occupational Safety & Health Administration)

None of the ingredients is listed.

(Contd. on page 8)

3

1

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US



Page 8/12

Safety Data Sheet acc. to OSHA HCS

Printing date 10/19/2021

Trade name: TCC410 Resin

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. 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.

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	not regulated
· IMDG, IATA	UN3082
· UN proper shipping name	
· DOT	not regulated
· IMDG	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQU
	N.O.S. (Epoxy Resin), MARINE POLLUTANT
·IATA	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUA
	N.O.S. (Epoxy Resin)

Reviewed on 10/19/2021

(Contd. of page 7)



Page 9/12

Safety Data Sheet acc. to OSHA HCS

Printing date 10/19/2021

Reviewed on 10/19/2021

Trade name: TCC410 Resin

	(Contd. of page
Transport hazard class(es)	
DOT	
Class	not regulated
IMDG, IATA	
Class	9 Miscellaneous dangerous substances and articles
Label	9
Packing group	
DOT	not regulated
IMDG, IATA	III
Environmental hazards:	
Marine pollutant:	Yes
-	Symbol (fish and tree)
Special marking (IATA):	Symbol (fish and tree)
Special precautions for user	Warning: Miscellaneous dangerous substances and articles
EMS Number:	F-A,S-F
Stowage Category	A
Transport in bulk according to Annex II of	f
MARPOL73/78 and the IBC Code	Not applicable.
UN "Model Regulation":	UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANC. LIQUID, N.O.S. (EPOXY RESIN), 9, III

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):

7429-90-5 aluminum powder (stabilised)

• TSCA (Toxic Substances Control Act):

All components have the value ACTIVE.

· Chemicals regulated by TSCA Section 12(b)

None of the ingredients is listed.

(Contd. on page 10)

US



Page 10/12

Safety Data Sheet acc. to OSHA HCS

Printing date 10/19/2021

Reviewed on 10/19/2021

Trade name: TCC410 Resin

	(Contd. of page 9)
· Chemical regulated by TSCA 5(a)(2)rule:	
None of the ingredients is listed.	
· Hazardous Air Pollutants	
98-82-8 cumene	
Proposition 65	
· Chemicals known to cause cancer:	
1317-65-3 Calcium Carbonate	
14808-60-7 Quartz (SiO2)	
14808-60-7 Quartz (SiO2)	
98-82-8 cumene	
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)

14808-60-7 Quartz (SiO2)

·NIOSH-Ca (National Institute for Occupational Safety and Health)

14808-60-7 Quartz (SiO2)

· 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: Reaction Product of Bisphenol A and Epichlorohydrin Quartz (SiO2) oxirane, mono[(C12-14-alkyloxy)methyl] derivs Alkyl C12-C14 Glycidyl Ether Polyglycol epichlorohydrin polymer

(Contd. on page 11)

A2



Page 11/12

Safety Data Sheet acc. to OSHA HCS

Printing date 10/19/2021

Reviewed on 10/19/2021

Trade name: TCC410 Resin

	(Contd. of page 10
Hazard statements	
Causes skin irritation.	
Causes serious eye irritation.	
May cause an allergic skin reaction.	
May cause cancer.	
Precautionary statements	
Obtain special instructions before use.	
Do not handle until all safety precautions have been read and understood.	
Avoid breathing dust/fume/gas/mist/vapors/spray	
Wash thoroughly after handling.	
Contaminated work clothing must not be allowed out of the workplace.	
Wear protective gloves/protective clothing/eye protection/face protection.	
If on skin: Wash with plenty of water.	
If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses	, if present and easy to do
Continue rinsing.	
IF exposed or concerned: Get medical advice/attention.	
Specific treatment (see on this label).	
Take off contaminated clothing and wash it before reuse.	
If skin irritation or rash occurs: Get medical advice/attention.	
<i>If eye irritation persists: Get medical advice/attention.</i>	
Wash contaminated clothing before reuse.	
Store locked up.	
Dispose of contents/container in accordance with local/regional/national/internationa	l regulations.
	0
National regulations:	
Information about limitation of use:	

Workers are not allowed to be exposed to the hazardous carcinogenic materials contained in this preparation. Exceptions can be made by the authorities in certain cases.

· 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 10/19/2021 / 4
- 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)
- *PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative*
- NIOSH: National Institute for Occupational Safety

(Contd. on page 12)

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Page 12/12

Safety Data Sheet acc. to OSHA HCS

Printing date 10/19/2021

Trade name: TCC410 Resin

OSHA: Occupational Safety & Health TLV: Threshold Limit Value PEL: Permissible Exposure Limit REL: Recommended Exposure Limit Skin Irrit. 2: Skin corrosion/irritation – Category 2 Eye Irrit. 2A: Serious eye damage/eye irritation – Category 2A Skin Sens. 1: Skin sensitisation – Category 1 Carc. 1A: Carcinogenicity – Category 1A • * Data compared to the previous version altered. Reviewed on 10/19/2021

(Contd. of page 11)

US