



# Safety Data Sheet

## SAKRETE Rapid-Setting Anchoring Epoxy

©Roberts Concrete Products (a TCC Materials company)

Version 1.0

**Roberts Concrete Products**  
2025 Centre Point Boulevard, Suite 300  
Mendota Heights, MN 55120-1221

**Emergency Telephone Number:**  
651-688-9116  
**Information Telephone Number**  
651-905-8137

**Revision Date**  
October 2017

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### Section 1: Product Identification

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Product Type: Sealant & Adhesive

**Product Name:**

SAKRETE Rapid-Setting Anchoring Epoxy – Epoxy Resin

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### Section 2: Hazard Identification

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**Classification of the substance or mixture:**



GHS07

Skin Irrit. 2  
Eye Irrit. 2A  
Skin Sens. 1

H315 Causes skin irritation.  
H319 Causes serious eye irritation.  
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).

**Hazard pictograms**



GHS07

This chemical has been evaluated according to GHS (Globally Harmonized System) and by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200). This Safety Data Sheet (SDS) contains valuable information critical to the safe handling and proper use of this product. This SDS should be retained and available for employees and other users of this product.

**Signal Word:** Warning

**Hazard Statements:**

Cause skin irritation.  
May cause serious eye irritation.  
May cause an allergic skin reaction.



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### Precautionary statements:

Avoid breathing dust/fume/gas/mist/vapors/spray.

Wear protective gloves.

Wear eye protection/face protection.

Wash thoroughly after handling.

Contaminated work clothing must not be allowed out of the workplace.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Specific treatment (see on this label).

Wash contaminated clothing before reuse.

If skin irritation or rash occurs: Get medical advice/attention.

If eye irritation persists: Get medical advice/attention.

IF ON SKIN: Wash with plenty of water.

Take off contaminated clothing and wash it before reuse.

Read label before use.

Dispose of contents/container in accordance with local/regional/national/international regulations.

### Classification system:

#### NFPA Ratings (scale 0-4)

Health = 1

Fire = 1

Reactivity = 0

#### HMIS Ratings (scale 0-4)

Health = 1

Fire = 1

Physical Hazard = 0

#### Other hazards:

Results of PBT and vPvB assessment

PBT: Not applicable

vPvB: Not applicable

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### Section 3: Hazardous Ingredients/Composition

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**Chemical characterization:** Mixtures

**Description:** Mixture.

#### Hazardous components:

Chemical Name	CAS No	Weight-%
Epoxy Resin	25085-99-8	50-100%
glycerol	56-81-5	2.5-1.0%
titanium dioxide	13463-67-7	≤0.5%



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#### Section 4: First Aid Measures

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##### **Description of first aid measures**

###### **Inhalation:**

Supply fresh air and to be sure call for a doctor. In case of unconsciousness, place patient stably in side position for transportation.

###### **Skin Contact:**

In case of contact, wipe excess from skin. Immediately wash skin with soap and water, rinse thoroughly. Remove and wash contaminated clothing before reuse or discard. If irritation persists, seek medical attention.

###### **Eye Contact:**

Immediately rinse opened eye with plenty of running water for at least 20 minutes. If eye becomes irritated, obtain medical treatment.

###### **Ingestion:**

Rinse mouth with water.  
Do not induce vomiting. Obtain medical advice.

##### **Most Important Symptoms and Effects, both Acute and Delayed**

No further relevant information is available.

##### **Indication of any Immediate Medical Attention and Special Treatment Needed**

No further relevant information is available.

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#### Section 5: Fire Fighting Measures

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##### **Extinguishing Media**

###### **Suitable Extinguishing Agents:**

CO<sub>2</sub>, extinguishing powder or water spray. Fight larger fires with water spray. Use fire-fighting measures that suit the environment.

###### **Specific Hazards Arising from the Substance or Mixture:**

No further relevant information is available.

###### **Advice for firefighters:**

Firefighters use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.

###### **Protective Equipment and Precautions for Firefighters:**

Protective clothing and respiratory protective device.

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#### Section 6: Accidental Release Measures

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##### **Personal Precautions, Protective Equipment and Emergency Procedures**

Wear protective equipment.  
Keep unprotected persons away.  
Ensure adequate ventilation.



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**Environmental precautions:**

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), shovel into suitable containers for disposal.

Dispose of contaminated material as waste in accordance with federal state and local regulations.

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.

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**Section 7: Handling and Storage**

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**Handling**

**Precautions for Safe Handling:**

Avoid prolonged or repeated contact with skin.

Avoid contact with eyes.

Wash thoroughly after handling.

Ensure good ventilation/exhaustion at the workplace.

Prevent formation of aerosols.

Open containers in a well-ventilated area and avoid breathing headspace vapors.

**Information about protection against explosions and fires:**

No special measures required.

**Storage**

**Conditions for Safe Storage, Including any Incompatibilities:**

**Requirements to be met by storerooms and receptacles:**

Store in a cool location away from direct heat.

**Information about storage in one common storage facility:**

Store away from oxidizing agents.

**Further information about storage conditions:**

Store in cool, dry conditions in well-sealed receptacles.

**Specific end use(s):**

No further relevant information available.

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**Section 8: Exposure Controls/Personal Protection**

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**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:				
	CAS No	PEL	REL	TLV
glycerol	56-81-5	Long-term value: 15* 5** mg/m <sup>3</sup> mist; *total dust **respirable fraction		TLV withdrawn – insufficient data human occup. exp.
titanium dioxide	13463-67-7	Long-term value: 15* 5** mg/m <sup>3</sup> *total dust	See Pocket Guide App. A	Long-term value: 10 mg/m <sup>3</sup> withdrawn from NIC

### Additional information:

The lists that were valid during the creation were used as basis.

### Exposure controls

#### Personal protective equipment (see listings below):

#### 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:

Not necessary if room is well-ventilated.

#### Protection of hands:

- Protective gloves.
- The glove material has to be impermeable and resistant to the product/ the substrate/ the preparation.

#### Material of gloves:

- Nitrile rubber, NBR
- 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.

#### 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:

- Safety glasses with side shields.
- Tightly sealed goggles.

#### Body protection:

- Protective work clothing.



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### Section 9: Physical and Chemical Properties

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#### Information on Basic Physical and Chemical Properties

##### General Information

##### Appearance:

Form:	Paste.
Color:	White.
Odor:	Characteristic.
Odor Threshold:	Not determined.
pH:	Not determined.
Melting Point:	Undetermined.
Boiling Point/Boiling Range:	Undetermined.
Flash Point:	>250°C (482°F).
Flammability (Solid, Gas):	Not applicable.
Ignition Temperature:	435°C (815°F)
Decomposition Temperature:	Not determined.
Auto Igniting:	Product is not self-igniting.
Danger of Explosion:	Product does not present an explosion hazard.
Vapor Pressure:	Not determined.
Specific Gravity @ 20°C (68°F):	1.29 g/cm <sup>3</sup> (10.765 lb/gal)
Relative Density:	Not determined.
Vapor Density:	Not determined.
Evaporation Rate:	Not determined.
Solubility in / Miscibility with Water:	Not miscible or difficult to mix.
Partition coefficient (n-octanol/water):	Not determined.
Dynamic Viscosity:	Not determined.
Kinematic Viscosity:	Not determined.
Solvent Content:	Not available.
Solids Content:	Not available.
Other Information:	No further relevant information available.

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### Section 10: Stability and Reactivity

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##### 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.



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**Conditions to avoid:**

Avoid high temperatures. Avoid freezing.

**Incompatible Materials:**

Reacts with oxidizing agents.

**Hazardous Decomposition Products:**

Carbon Monoxide, Carbon Dioxide, Aldehydes, acids.

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**Section 11: Toxicological Information**

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**Information on Toxicological Effects**

**Acute Toxicity:**

**Primary irritant effect:**

**Skin Contact:**

Skin irritant.

**Eye Contact:**

Causes serious eye Irritation.

**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):**

titanium dioxide	13463-67-7	2B
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**NTP (National Toxicological Program):**

None of the ingredients is listed.

**OSHA-Ca (Occupational Safety & Health Administration):**

None of the ingredients is listed.

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**Section 12: Ecological Information**

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**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.

**Ecotoxicological effects:**

**Remark:** Toxic for fish



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**Additional ecological information:**

**General notes:** At present there are no ecotoxicological assessments.

**Results of PBT and vPvB assessment:**

**PBT:** Not applicable.

**vPvB:** Not applicable.

**Other adverse effects:** No further relevant information available.

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**Section 13: Disposal Considerations**

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**Waste Treatment Methods:**

**Recommendation:** Must be specially treated adhering to official regulations.

**Uncleaned packagings:**

**Recommendation:** Disposal must be made according to official regulations.

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**Section 14: Transportation**

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**UN-Number**

DOT, ADR, ADN, IMDG, IATA                      Not regulated.

**UN proper shipping name**

DOT, ADR, ADN, IMDG, IATA                      Not regulated.

**Transport Hazard Class(es)**

DOT, ADR, ADN, IMDG, IATA  
Class    Not regulated.

**Packing group**

DOT, ADR, IMDG, IATA                              Not regulated.

**Environmental hazards:**

Not applicable.

**Special precautions for user**

Not applicable.

**Transport in bulk according to Annex II of**

**MARPOL73/78 and the IBC Code**                      Not applicable.

**UN "Model Regulation":**

Not regulated.





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**Section 15: Regulatory Information**

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**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 of this product are on the TSCA Inventory or are exempt from TSCA Inventory requirements.

**Proposition 65**

The state of California requires the following statement (Proposition 65) in regards to this material:



**WARNING:** This product can expose you to chemicals which are known to the State of California to cause cancer, birth defects, or other reproductive harm. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

**Chemicals known to the State of California (Prop. 65) to cause cancer:**

titanium dioxide	13463-67-7
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**Chemicals known to cause reproductive toxicity:**

None of the ingredients is listed.

**Chemicals known to cause developmental toxicity:**

None of the ingredients is listed.

**(DSL) Canada Domestic Substance List**

All components of this product are on the DSL(Canada Domestic Substance list) or are exempt from DSL requirements.

**New Jersey Right-to-Know List:**

glycerol	56-81-5
titanium dioxide	13463-67-7

**New Jersey Special Hazardous Substance List:**

None of the ingredients is listed.

**Pennsylvania Right-to-Know List:**

glycerol	56-81-5
titanium dioxide	13463-67-7

**Pennsylvania Special Hazardous Substance List:**

None of the ingredients is listed.



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### Carcinogenicity categories:

#### EPA (Environmental Protection Agency)

None of the ingredients is listed.

### TLV (Threshold Limit Value established by ACGIH)

Titanium dioxide	13463-67-7	A4
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### MAK (German Maximum Workplace Concentration)

Titanium dioxide	13463-67-7	3A
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### NIOSH-Ca (National Institute for Occupational Safety and Health)

Titanium dioxide	13463-67-7
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### National regulations:

#### Water hazard class:

Water hazard class 2 (Self-assessment): hazardous for water.

#### Chemical safety assessment:

A Chemical Safety Assessment has not been carried out.

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## Section 16: Other Information

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Additional information on the products is available at: [www.tccmaterials.com](http://www.tccmaterials.com)

Date of Preparation: October 5, 2017  
Version: 1.0

NOTE: The information and recommendations contained herein are based upon data believed to be correct. However, no guarantee or warranty of any kind, express or implied, is made with respect to the information contained herein. We accept no responsibility and disclaim all liability for any harmful effects which may be caused by exposure to silica contained in our products. Before using any product, read its label and safety data sheet.

### Abbreviations and acronyms:

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International

Carriage of Dangerous Goods by Road)

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)

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

NIOSH: National Institute for Occupational Safety



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OSHA: Occupational Safety & Health

TLV: Threshold Limit Value

PEL: Permissible Exposure Limit

REL: Recommended Exposure Limit

Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2

Eye Irrit. 2A: Serious eye damage/eye irritation, Hazard Category 2A

Skin Sens. 1: Sensitisation - Skin, Hazard Category 1



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**Revision Date**  
October 2017

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### Section 1: Product Identification

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Product Type: Sealant & Adhesive

**Product Name:**

SAKRETE Rapid-Setting Anchoring Epoxy – Hardener

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### Section 2: Hazard Identification

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**Classification of the substance or mixture:**



GHS08 Health hazard

Repr. 1B H360 May damage 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.



GHS09 Environment

Aquatic Chronic 2 H411 Toxic to aquatic life with long lasting effects.



GHS07

Acute Tox. 4 H302 Harmful if swallowed.  
Skin Sens. 1 H317 May cause an allergic skin reaction.  
Aquatic Acute 2 H401 Toxic to aquatic life.

**Label elements**

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



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### Hazard pictograms



GHS05



GHS07



GHS08



GHS09

This chemical has been evaluated according to GHS (Globally Harmonized System) and by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200). This Safety Data Sheet (SDS) contains valuable information critical to the safe handling and proper use of this product. This SDS should be retained and available for employees and other users of this product.

**Signal Word:** Danger

### Hazard Statements:

Harmful if swallowed.  
Causes severe skin burns and eye damage.  
May cause an allergic skin reaction.  
May damage fertility or the unborn child.  
Toxic to aquatic life.  
Toxic to aquatic life with long lasting effects.

### Precautionary statements:

Do not breathe dusts or mists.  
Wear protective gloves.  
Wear eye protection / face protection.  
Avoid release to the environment.  
Wash thoroughly after handling.  
Do not eat, drink or smoke when using this product.  
Contaminated work clothing must not be allowed out of the workplace.  
Obtain special instructions before use.  
Do not handle until all safety precautions have been read and understood.  
If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.  
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).  
IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.  
IF INHALED: Remove person to fresh air and keep comfortable for breathing.



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Wash contaminated clothing before reuse.

IF exposed or concerned: Get medical advice/attention.

If skin irritation or rash occurs: Get medical advice/attention.

If swallowed: Rinse mouth. Do NOT induce vomiting.

Collect spillage.

Store locked up.

Dispose of contents/container in accordance with local/regional/national/international regulations.

### Classification system:

#### NFPA Ratings (scale 0-4)

Health = 3

Fire = 1

Reactivity = 0

#### HMIS Ratings (scale 0-4)

Health = 3

Fire = 1

Physical Hazard = 0

#### Other hazards:

Results of PBT and vPvB assessment

PBT: Not applicable

vPvB: Not applicable

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### Section 3: Hazardous Ingredients/Composition

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**Chemical characterization:** Mixtures

**Description:** Mixture.

#### Dangerous components:

Chemical Name	CAS No	Weight-%
Quartz (SiO <sub>2</sub> )	14808-60-7	25-50%
4-nonylphenol, branched	84852-15-3	5-20%
aminoethylpiperazine	140-31-8	2.5-10%
Polyetheramine		2.5-10%
2,4,6-tris(dimethylaminomethyl)phenol	90-72-2	2.5-10%
2,2'-iminodiethylamine	111-40-0	≤0.5%
titanium dioxide	13463-67-7	≤0.5%



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**Section 4: First Aid Measures**

---

**Description of first aid measures**

**Inhalation:**

Supply fresh air or oxygen; call for doctor.  
In case of unconsciousness place patient stably in side position for transportation.

**Skin Contact:**

Immediately wash with water and soap and rinse thoroughly.  
If skin becomes irritated seek medical attention.

**Eye Contact:**

Rinse opened eye for 20 minutes under running water. Call a Doctor immediately.

**Ingestion:**

Rinse mouth with water.  
Do not induce vomiting; immediately call for medical help.

**Most Important Symptoms and Effects, both Acute and Delayed**

No further relevant information is available.

**Indication of any Immediate Medical Attention and Special Treatment Needed**

No further relevant information is available.

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**Section 5: Fire Fighting Measures**

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**Extinguishing Media**

**Suitable Extinguishing Agents:**

CO<sub>2</sub>, extinguishing powder or water spray. Fight larger fires with water spray.  
Use fire-fighting measures that suit the environment.

**Specific Hazards Arising from the Substance or Mixture:**

No further relevant information is available.

**Advice for firefighters:**

Firefighters use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.

**Protective Equipment:**

Protective clothing and respiratory protective device.

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**Section 6: Accidental Release Measures**

---

**Personal Precautions, Protective Equipment and Emergency Procedures:**

Wear protective equipment.  
Keep unprotected persons away.  
Ensure adequate ventilation.



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### Environmental precautions:

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 of contaminated material as waste in accordance with federal state and local regulations.

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.

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## Section 7: Handling and Storage

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### Handling

#### Precautions for Safe Handling:

Avoid prolonged or repeated contact with skin.

Avoid contact with eyes.

Wash thoroughly after handling.

Ensure good ventilation/exhaustion at the workplace.

Prevent formation of aerosols.

Open containers in a well-ventilated area and avoid breathing headspace vapors.

#### Information about protection against explosions and fires:

No special measures required.

### Storage

#### Conditions for Safe Storage, Including any Incompatibilities

#### Requirements to be met by storerooms and receptacles:

Store in a cool location away from direct heat.

#### Information about storage in one common storage facility:

Store away from oxidizing agents..

#### Further information about storage conditions:

Keep receptacle tightly sealed.

#### Specific end use(s):

No further relevant information available.

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## Section 8: Exposure Controls/Personal Protection

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### 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:				
	CAS No	PEL	REL	TLV
Quartz (SiO <sub>2</sub> )	14808-60-7	50 µg/m <sup>3</sup> (8-hr TWA)	50 µg/m <sup>3</sup> (respirable)	25 µg/m <sup>3</sup> (respirable)
2,2'-iminodiethylamine	111-40-0		Long-term value: 4 mg/m <sup>3</sup> , 1 ppm Skin	Long-term value: 4.2 mg/m <sup>3</sup> , 1 ppm Skin
titanium dioxide	13463-67-7	Long-term value: 15* mg/m <sup>3</sup> *total dust	See Pocket Guide App. A	Long-term value: 10 mg/m <sup>3</sup> withdrawn from NIC

### Additional information:

The lists that were valid during the creation were used as basis.

### Exposure controls

#### Personal protective equipment (see listings below):

#### 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:

Use approved respiratory protection equipment when airborne exposure is excessive. Consult the respirator manufacturer to determine the appropriate type of equipment for a given application. Observe respirator use limitations specified by the manufacturer.

#### Protection of hands:

Protective Gloves.

#### Material of gloves:

Nitrile rubber, NBR.

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.

#### 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:

- Safety glasses with side shields.
- Tightly sealed goggles.
- Eye wash stations should be available.

#### Body protection:

Protective work clothing.



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### Section 9: Physical and Chemical Properties

---

#### Information on Basic Physical and Chemical Properties

##### General Information

##### Appearance:

Form:	Paste.
Color:	Dark Gray.
Odor:	Characteristic.
Odor Threshold:	Not determined.
pH:	Not determined.
Melting Point:	Undetermined.
Boiling Point/Boiling Range:	Undetermined.
Flash Point:	Not applicable.
Flammability (Solid, Gas):	Not applicable
Ignition Temperature:	315°C (599°F)
Decomposition Temperature:	Not determined.
Auto Igniting:	Product is not self-igniting.
Danger of Explosion:	Product does not present an explosion hazard.
Vapor Pressure:	Not determined.
Specific gravity @ 20°C (68°F):	1.72 g/cm <sup>3</sup> (14.353 lbs/gal)
Relative Density:	Not determined.
Vapor Density:	Not determined.
Evaporation Rate:	Not determined.
Solubility in / Miscibility with Water:	Not miscible or difficult to mix.
Partition coefficient (n-octanol/water):	Not determined.
Dynamic Viscosity:	Not determined.
Kinematic Viscosity:	Not determined.
Solvent Content:	Not available.
Solids Content:	Not available.
Other Information:	No further relevant information available.

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### Section 10: Stability and Reactivity

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#### 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.



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### Conditions to avoid:

- Heat, flames, sparks.
- Exposure to high temperatures.

### Incompatible Materials:

- Reacts with oxidizing agents.

### Hazardous Decomposition Products:

- Carbon monoxide and carbon dioxide.
- Ammonia.
- Amines.

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## Section 11: Toxicological Information

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### Information on Toxicological Effects

#### Acute Toxicity:

#### LD/LC50 values that are relevant for classification

	CAS No	Oral LD50	Dermal LD50
aminoethylpiperazine	140-31-8	2140 mg/kg (rat)	880 mg/kg (rabbit)

#### Primary irritant effect:

##### Skin Contact:

- Caustic effect on skin and mucous membranes.

##### Eye Contact:

- Causes serious eye damage.
- Vapors may be irritating to the eyes.

##### Sensitization:

- Skin Contact: 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):

Quartz (SiO <sub>2</sub> )	14808-60-7	1
red iron oxide	1309-37-1	3
titanium dioxide	13463-67-7	2B
Carbon black	1333-86-4	2B

##### NTP (National Toxicological Program):

Quartz (SiO <sub>2</sub> )	14808-60-7	K
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**OSHA-Ca (Occupational Safety & Health Administration):**  
None of the ingredients is listed.

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**Section 12: Ecological Information**

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**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.

**Ecotoxicological effects**

**Remark:** Toxic for fish

**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.

Also poisonous for fish and plankton in water bodies.

Toxic for aquatic organisms.

**Results of PBT and vPvB assessment:**

**PBT:** Not applicable.

**vPvB:** Not applicable.

**Other adverse effects:** No further relevant information available.

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**Section 13: Disposal Considerations**

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**Waste Treatment Methods**

**Recommendation:** Must not be disposed of together with household garbage.  
Do not allow product to reach sewage system.  
Must be specially treated adhering to official regulations.  
Disposal must be made according to official regulations.

**Uncleaned packagings:**

**Recommendation:** Disposal must be made according to official regulations.



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### Section 14: Transportation

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#### UN-Number

DOT, ADR, IMDG, IATA: UN1760

#### UN proper shipping name

DOT: RQ Corrosive liquids, n.o.s. (4-nonylphenol, branched, NAminoethylpiperazine)  
ADR: 1760 Corrosive liquids, n.o.s. (4-nonylphenol, branched, NAminoethylpiperazine), ENVIRONMENTALLY HAZARDOUS  
IMDG: CORROSIVE LIQUID, N.O.S. (4-nonylphenol, branched, NAMINOETHYLPIPERAZINE), MARINE POLLUTANT  
IATA: Corrosive liquids, n.o.s. (4-nonylphenol, branched, NAminoethylpiperazine)

#### Transport Hazard Class(es)

DOT:



Class: 8 Corrosive substances  
Label: 8

ADR, IMDG:



Class: 8 Corrosive substances  
Label: 8



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IATA:



Class: 8 Corrosive substances  
Label: 8

### Packing group

DOT, ADR, IMDG, IATA: III

**Environmental hazards:** Product contains environmentally hazardous substances: 4-nonylphenol, branched

**Marine pollutant:** Yes (DOT)  
Symbol (fish and tree)

**Special marking (ADR):** Symbol (fish and tree)

**Special precautions for user:** Warning: Corrosive substances

**Danger code (Kemler):** 80

**EMS Number:** F-A, S-B

**Stowage Category:** A

**Stowage Code:** SW2 Clear of living quarters.

**Transport in bulk according to Annex II of MARPOL73/78 and the IBC:**  
Not applicable.

### Transport/Additional information:

DOT

**Remarks:** Special marking with the symbol (fish and tree).

**UN "Model Regulation":** UN 1760 CORROSIVE LIQUIDS, N.O.S. (4-NONYLPHENOL, BRANCHED, N-AMINOETHYLPIPERAZINE), 8, III, ENVIRONMENTALLY HAZARDOUS

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## Section 15: Regulatory Information

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

Sara

**Section 355 (extremely hazardous substances):**

None of the ingredients is listed.



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### Section 313 (Specific toxic chemical listings):

4-nonylphenol, branched	84852-15-3
aluminium oxide	1344-28-1

### TSCA (Toxic Substances Control Act):

All components of this product are on the TSCA Inventory or are exempt from TSCA Inventory requirements.

### Proposition 65

The state of California requires the following statement (Proposition 65) in regards to this material:



**WARNING:** This product can expose you to chemicals which are known to the State of California to cause cancer, birth defects, or other reproductive harm. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

### Chemicals known to the State of California (Prop. 65) to cause cancer:

titanium dioxide	13463-67-7
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### Chemicals known to cause reproductive toxicity:

None of the ingredients is listed.

### Chemicals known to cause developmental toxicity:

None of the ingredients is listed.

### (DSL) Canada Domestic Substance List

All components of this product are on the DSL(Canada Domestic Substance list) or are exempt from DSL requirements.

### New Jersey Right-to-Know List:

Quartz (SiO <sub>2</sub> )	14808-60-7
Talc (Mg <sub>3</sub> H <sub>2</sub> (SiO <sub>3</sub> ) <sub>4</sub> )	14807-96-6
aluminium oxide	1344-28-1
2,2'-iminodiethylamine	111-40-0
2-(2-aminoethylamino)ethanol	111-41-1
titanium dioxide	13463-67-7

### New Jersey Special Hazardous Substance List:

Quartz (SiO <sub>2</sub> )	14808-60-7	CA
Talc (Mg <sub>3</sub> H <sub>2</sub> (SiO <sub>3</sub> ) <sub>4</sub> )	14807-96-6	CA
2,2'-iminodiethylamine	111-40-0	CO
2-(2-aminoethylamino)ethanol	111-41-1	CO

### Pennsylvania Right-to-Know List:

Quartz (SiO <sub>2</sub> )	14808-60-7
Talc (Mg <sub>3</sub> H <sub>2</sub> (SiO <sub>3</sub> ) <sub>4</sub> )	14807-96-6



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aluminium oxide	1344-28-1
2,2'-iminodiethylamine	111-40-0
2-(2-aminoethylamino)ethanol	111-41-1
titanium dioxide	13463-67-7

**Pennsylvania Special Hazardous Substance List:**

aluminium oxide	1344-28-1	E
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**Carcinogenicity categories:**

**EPA (Environmental Protection Agency)**

None of the ingredients is listed.

**TLV (Threshold Limit Value established by ACGIH)**

Quartz (SiO <sub>2</sub> )	14808-60-7	A2
Talc (Mg <sub>3</sub> H <sub>2</sub> (SiO <sub>3</sub> ) <sub>4</sub> )	14807-96-6	A4
aluminium oxide	1344-28-1	A4
red iron oxide	1309-37-1	A4
titanium dioxide	13463-67-7	A4
Carbon black	1333-86-4	A4

**MAK (German Maximum Workplace Concentration)**

Quartz (SiO <sub>2</sub> )	14808-60-7	1
Talc (Mg <sub>3</sub> H <sub>2</sub> (SiO <sub>3</sub> ) <sub>4</sub> )	14807-96-6	3B
aluminium oxide	1344-28-1	2
titanium dioxide	13463-67-7	3A
Carbon black	1333-86-4	3B

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

Quartz (SiO <sub>2</sub> )	14808-60-7
titanium dioxide	13463-67-7
Carbon black	1333-86-4

**National regulations:**

**Water hazard class:**

Water hazard class 3 (Self-assessment): extremely hazardous for water.

**Chemical safety assessment:**

A Chemical Safety Assessment has not been carried out.

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**Section 16: Other Information**

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Additional information on the products is available at: [www.tccmaterials.com](http://www.tccmaterials.com)

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### Abbreviations and acronyms:

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International

Carriage of Dangerous Goods by Road)

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)

HMS: Hazardous Materials Identification System (USA)

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, Hazard Category 4

Skin Corr. 1B: Skin corrosion/irritation, Hazard Category 1B

Eye Dam. 1: Serious eye damage/eye irritation, Hazard Category 1

Skin Sens. 1: Sensitisation - Skin, Hazard Category 1

Repr. 1B: Reproductive toxicity, Hazard Category 1B

Aquatic Acute 2: Hazardous to the aquatic environment - Acute Hazard, Category 2

Aquatic Chronic 2: Hazardous to the aquatic environment - Chronic Hazard, Category 2