

# SAFETY DATA SHEET

Issue Date 15-Mar-2016 Revision Date 07-May-2017 Version 4

# 1. IDENTIFICATION

Product identifier

**Product Name** CP-83 MP/T/HT Hardener

Other means of identification

**Product Code** 932BC **Synonyms** None

Recommended use of the chemical and restrictions on use **Recommended Use Industrial Coatings** No information available Uses advised against

Details of the supplier of the safety data sheet

**Manufacturer Address BLOME INTERNATIONAL** 1450 Hoff Industrial Drive O'Fallon, MO 63366

Emergency telephone number

**Company Phone Number** 636-379-9119

**Emergency Telephone** CHEMTREC: 800-424-9300 CHEMTREC: 703-527-3887

CANUTEC: 613-966-6666

# 2. HAZARDS IDENTIFICATION

#### Classification

# **OSHA Regulatory Status**

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Acute toxicity - Oral	Category 4
Skin corrosion/irritation	Category 2
Serious eye damage/eye irritation	Category 1
Skin sensitization	Category 1

#### Label elements

**Emergency Overview** 

**Danger** 

**Hazard statements** 

Harmful if swallowed Causes skin irritation Causes serious eye damage May cause an allergic skin reaction



Appearance viscous paste Physical state Solid Odor Amine

# **Precautionary Statements - Prevention**

Wash face, hands and any exposed skin thoroughly after handling Do not eat, drink or smoke when using this product Wear protective gloves/protective clothing/eye protection/face protection Avoid breathing dust/fume/gas/mist/vapors/spray Contaminated work clothing should not be allowed out of the workplace

# **Precautionary Statements - Response**

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 or doctor/physician

IF ON SKIN: Wash with plenty of soap and water Take off contaminated clothing and wash before reuse

Take off contaminated clothing and wash before reuse

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

IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell

Rinse mouth

#### **Precautionary Statements - Disposal**

Dispose of contents/container to an approved waste disposal plant

#### Hazards not otherwise classified (HNOC)

Not applicable

#### Other Information

Harmful to aquatic life with long lasting effects.

#### Unknown acute toxicity

39% of the mixture consists of ingredient(s) of unknown toxicity

#### 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### Substance

Not applicable

#### Mixture

Chemical Name	CAS No	Weight-%
Quartz *	14808-60-7	30 - 60
Polyamidoamine *	Proprietary	10 - 30
Wollastonite (Ca(SiO3)) *	13983-17-0	10 - 30
2,4,6-Tri(dimethylaminomethyl)phenol *	90-72-2	3 - 7
Triethylenetetramine *	112-24-3	1 - 5
Diethylenetriamine *	111-40-0	1 - 5
Silica, amorphous, precipitated and gel *	112926-00-8	1 - 5

<sup>\*</sup>The exact percentage (concentration) of composition has been withheld as a trade secret. If CAS number is "proprietary", the specific chemical identity and percentage of composition has been withheld as a trade secret.

# 4. FIRST AID MEASURES

#### Description of first aid measures

General advice In case of accident or unwellness, seek medical advice immediately (show directions for

use or safety data sheet if possible). If symptoms persist, call a physician.

Eye contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.

Remove contact lenses, if present and easy to do. Continue rinsing. Call a physician

immediately.

**Skin contact**Wash off immediately with soap and plenty of water while removing all contaminated

clothes and shoes. Seek immediate medical attention/advice. For minor skin contact, avoid

spreading material on unaffected skin. If skin irritation persists, call a physician.

**Inhalation** Remove to fresh air. If breathing is irregular or stopped, administer artificial respiration.

Avoid direct contact with skin. Use barrier to give mouth-to-mouth resuscitation. If

symptoms persist, call a physician.

Ingestion Call a physician or poison control center immediately. Rinse mouth. Drink plenty of water.

Do not induce vomiting without medical advice.

Self-protection of the first aider Ensure that medical personnel are aware of the material(s) involved and take precautions to

protect themselves. Do not use mouth-to-mouth method if victim ingested or inhaled the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way

valve or other proper respiratory medical device.

#### Most important symptoms and effects, both acute and delayed

**Symptoms** May cause skin irritation. May cause redness and tearing of the eyes. May result in

permanent damage including blindness. May cause allergic skin reaction. Coughing and/ or

wheezing.

#### Indication of any immediate medical attention and special treatment needed

## 5. FIRE-FIGHTING MEASURES

#### Suitable extinguishing media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Dry chemical, CO2, alcohol-resistant foam or water spray. Move containers from fire area if you can do it without risk.

Unsuitable extinguishing media Do not use a solid water stream as it may scatter and spread fire.

#### Specific hazards arising from the chemical

The product causes burns of eyes, skin and mucous membranes. Thermal decomposition can lead to release of irritating and toxic gases and vapors. Runoff may pollute waterways.

#### **Explosion data**

Sensitivity to Mechanical Impact None.
Sensitivity to Static Discharge None.

#### Protective equipment and precautions for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

# 6. ACCIDENTAL RELEASE MEASURES

## Personal precautions, protective equipment and emergency procedures

**Personal precautions** Remove all sources of ignition. Evacuate personnel to safe areas. Ensure adequate

ventilation, especially in confined areas. Use personal protective equipment as required.

Keep people away from and upwind of spill/leak.

**Environmental precautions** 

**Environmental precautions** Prevent entry into waterways, sewers, basements or confined areas.

Methods and material for containment and cleaning up

Methods for containment Absorb or cover with dry earth, sand or other non-combustible material and transfer to

containers.

Methods for cleaning up Cover liquid spill with sand, earth or other non-combustible absorbent material. Use

personal protective equipment as required. Dam up. Take up mechanically, placing in

appropriate containers for disposal. Clean contaminated surface thoroughly.

# 7. HANDLING AND STORAGE

Precautions for safe handling

**Advice on safe handling** Avoid contact with skin, eyes or clothing. Use personal protective equipment as required.

Wash contaminated clothing before reuse. Do not breathe dust/fume/gas/mist/vapors/spray.

Do not eat, drink or smoke when using this product.

Conditions for safe storage, including any incompatibilities

Storage Conditions Keep container tightly closed in a dry and well-ventilated place. Keep out of the reach of

children.

**Incompatible materials** Strong oxidizing agents. Strong acids. Strong bases.

#### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

# Control parameters

Exposure Guidelines

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Quartz 14808-60-7	TWA: 0.025 mg/m³ respirable fraction	: (30)/(%SiO2 + 2) mg/m³ TWA total dust : (250)/(%SiO2 + 5) mppcf TWA respirable fraction : (10)/(%SiO2 + 2) mg/m³ TWA respirable fraction	IDLH: 50 mg/m³ respirable dust TWA: 0.05 mg/m³ respirable dust
Diethylenetriamine 111-40-0	TWA: 1 ppm S*	-	TWA: 1 ppm TWA: 4 mg/m³
Silica, amorphous, precipitated and gel 112926-00-8	-	TWA: 20 mppcf : (80)/(% SiO2) mg/m³ TWA	-

#### Legend

S\* - Skin Absorber

NIOSH IDLH Immediately Dangerous to Life or Health

#### Appropriate engineering controls

Engineering Controls Showers

Eyewash stations Ventilation systems.

#### Individual protection measures, such as personal protective equipment

**Eye/face protection** Tight sealing safety goggles.

**Skin and body protection** Wear protective gloves and protective clothing.

Respiratory protection If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved

respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.

Pensky-Martens Closed Cup (PMCC)

**General Hygiene Considerations** 

Handle in accordance with good industrial hygiene and safety practice.

# 9. PHYSICAL AND CHEMICAL PROPERTIES

#### Information on basic physical and chemical properties

Physical state Solid

Appearance viscous paste Odor Amine

Color Tan Odor threshold No information available

Property Values Remarks • Method

 $\begin{array}{lll} \textbf{pH} & \text{No information available} \\ \textbf{Melting point / freezing point} & \text{No information available} \\ \textbf{Boiling point / boiling range} & > 200 \ ^{\circ}\text{C} \ / > 392 \ ^{\circ}\text{F} \\ \textbf{Flash point} & > 100 \ ^{\circ}\text{C} \ / \ 212 \ ^{\circ}\text{F} \\ \end{array}$ 

Evaporation rate No information available Flammability (solid, gas) No information available

Flammability Limit in Air

Upper flammability limit:No information availableLower flammability limit:No information availableVapor pressureNo information availableVapor densityNo information available

Relative density 1.62 g/cm3 Water solubility slightly soluble

No information available Solubility in other solvents Partition coefficient No information available **Autoignition temperature** No information available **Decomposition temperature** No information available Kinematic viscosity No information available No information available **Dynamic viscosity Explosive properties** Not an explosive **Oxidizing properties** Not applicable

Other Information

Softening point No information available Molecular weight No information available

VOC Content (%) 0 g/L

DensityNo information availableBulk densityNo information available

# 10. STABILITY AND REACTIVITY

# Reactivity

No data available

# **Chemical stability**

Stable under recommended storage conditions.

# Possibility of Hazardous Reactions

Hazardous polymerization does not occur.

# **Conditions to avoid**

Elevated Temperature. Incompatible materials.

# **Incompatible materials**

Strong oxidizing agents. Strong acids. Strong bases.

#### **Hazardous Decomposition Products**

Thermal decomposition can lead to release of irritating and toxic gases and vapors.

# 11. TOXICOLOGICAL INFORMATION

#### Information on likely routes of exposure

#### **Product Information**

**Inhalation** May cause irritation.

**Eye contact** Corrosive to the eyes and may cause severe damage including blindness.

Skin contact Irritating to skin. Repeated or prolonged skin contact may cause allergic reactions with

susceptible persons.

**Ingestion** Can burn mouth, throat, and stomach.

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Quartz 14808-60-7	= 500 mg/kg ( Rat )	-	-
2,4,6-Tri(dimethylaminomethyl)phen ol 90-72-2	= 1200 mg/kg(Rat)	= 1280 mg/kg(Rat)	-
Triethylenetetramine 112-24-3	= 2500 mg/kg (Rat)	= 550 mg/kg(Rabbit)	-
Diethylenetriamine 111-40-0	= 1080 mg/kg (Rat)	= 672 mg/kg (Rabbit)	= 70 mg/L(Rat)4 h

#### Information on toxicological effects

Symptoms May cause an allergic skin reaction. May cause skin irritation. May cause redness and

tearing of the eyes. May result in permanent damage including blindness. Coughing and/ or

wheezing.

#### Delayed and immediate effects as well as chronic effects from short and long-term exposure

**Sensitization** May cause sensitization in susceptible persons.

**Germ cell mutagenicity** Based on available data, the classification criteria are not met.

Carcinogenicity This product contains crystalline silica (quartz) in a non-respirable form. Inhalation of

crystalline silica is unlikely to occur from exposure to this product.

Chemical Name	ACGIH	IARC	NTP	OSHA
Quartz 14808-60-7	A2	Group 1	Known	X
Wollastonite (Ca(SiO3)) 13983-17-0	-	Group 3	-	-
Silica, amorphous, precipitated and gel 112926-00-8	-	Group 3	-	-

ACGIH (American Conference of Governmental Industrial Hygienists)

A2 - Suspected Human Carcinogen

IARC (International Agency for Research on Cancer)

Group 1 - Carcinogenic to Humans Not classifiable as a human carcinogen NTP (National Toxicology Program)

Known - Known Carcinogen

OSHA (Occupational Safety and Health Administration of the US Department of Labor)

X - Present

**Reproductive toxicity** Based on available data, the classification criteria are not met.

**STOT - single exposure** Target Organs. Respiratory system. Eyes. Skin.

**STOT - repeated exposure**Based on available data, the classification criteria are not met.

**Chronic toxicity** May cause adverse liver effects.

Target Organ Effects Eyes, Respiratory system, Skin, lungs, kidney, liver.

Aspiration hazard Based on available data, the classification criteria are not met.

#### Numerical measures of toxicity - Product Information

The following values are calculated based on chapter 3.1 of the GHS document .

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 ATEmix (oral)
 1,876.00 mg/kg

 ATEmix (dermal)
 6,954.00 mg/kg

 ATEmix (inhalation-dust/mist)
 2,135.00 mg/l

# 12. ECOLOGICAL INFORMATION

#### **Ecotoxicity**

Harmful to aquatic life with long lasting effects

94 % of the mixture consists of components(s) of unknown hazards to the aquatic environment

Chemical Name	Algae/aquatic plants	Fish	Crustacea
Triethylenetetramine 112-24-3	2.5: 72 h Desmodesmus subspicatus mg/L EC50 20: 72 h Pseudokirchneriella subcapitata mg/L EC50 3.7: 96 h Pseudokirchneriella subcapitata mg/L EC50	570: 96 h Poecilia reticulata mg/L LC50 semi-static 495: 96 h Pimephales promelas mg/L LC50	31.1: 48 h Daphnia magna mg/L EC50
Diethylenetriamine 111-40-0	1164: 72 h Pseudokirchneriella subcapitata mg/L EC50 345.6: 96 h Pseudokirchneriella subcapitata mg/L EC50 592: 96 h Desmodesmus subspicatus mg/L EC50	248: 96 h Poecilia reticulata mg/L LC50 static 430: 96 h Leuciscus idus mg/L LC50 semi-static 1014: 96 h Poecilia reticulata mg/L LC50 semi-static	16: 48 h Daphnia magna mg/L EC50 37: 24 h Daphnia magna mg/L EC50
Bisphenol A 80-05-7	2.5: 96 h Pseudokirchneriella subcapitata mg/L EC50	3.6 - 5.4: 96 h Pimephales promelas mg/L LC50 flow-through 4.0 - 5.5: 96 h Pimephales promelas mg/L LC50 static 4: 96 h Oncorhynchus mykiss mg/L LC50 9.9: 96 h Brachydanio rerio mg/L LC50 static	EC50 3.9: 48 h Daphnia magna mg/L EC50 9.2 - 11.4: 48 h Daphnia magna mg/L EC50 Static

#### Persistence and degradability

No information available.

# **Bioaccumulation**

Chemical Name	Partition coefficient
Triethylenetetramine 112-24-3	-1.4
Diethylenetriamine 111-40-0	-1.3

# Other adverse effects

No information available

# 13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Disposal of wastes Disposal should be in accordance with applicable regional, national and local laws and

regulations.

Contaminated packaging Do not reuse container.

Chemical Name	California Hazardous Waste Status
Diethylenetriamine 111-40-0	Toxic

# 14. TRANSPORT INFORMATION

**DOT** Not regulated

TDG Not regulated Not regulated

**IMDG** Not regulated

# 15. REGULATORY INFORMATION

**International Inventories** 

**TSCA** Complies Complies **DSL/NDSL** Complies **EINECS/ELINCS** Complies **IECSC KECL** Complies Complies **PICCS** Complies **AICS** 

#### Legend:

IATA

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

**ENCS** - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

**KECL** - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

# **US Federal Regulations**

#### **SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

#### SARA 311/312 Hazard Categories

Acute health hazard Yes **Chronic Health Hazard** No Fire hazard No Sudden release of pressure hazard Nο **Reactive Hazard** Nο

#### **CWA (Clean Water Act)**

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material

# **US State Regulations**

# **California Proposition 65**

This product contains the following Proposition 65 chemicals

Chemical Name	California Proposition 65
Quartz - 14808-60-7	Carcinogen
Bisphenol A - 80-05-7	Female Reproductive

# U.S. State Right-to-Know Regulations

Chemical Name	New Jersey	Massachusetts	Pennsylvania
Quartz	X	X	X

14808-60-7			
Triethylenetetramine 112-24-3	Х	Х	Х
Diethylenetriamine 111-40-0	Х	Х	Х
Silica, amorphous, precipitated and gel 112926-00-8	Х	Х	Х
Bisphenol A 80-05-7	Х	Х	Х

#### U.S. EPA Label Information

EPA Pesticide Registration Number Not applicable

# 16. OTHER INFORMATION, INCLUDING DATE OF PREPARATION OF THE LAST REVISION

NFPA Health hazards 3 Flammability 1 Instability 0 Physical and Chemical Properties -

HMIS Health hazards 3 Flammability 1 Physical hazards 0 Personal protection X

 Issue Date
 15-Mar-2016

 Revision Date
 07-May-2017

Revision Note

No information available

#### **Disclaimer**

The information provided in this Material Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

**End of Safety Data Sheet** 



# SAFETY DATA SHEET

Issue Date 15-Mar-2016 Revision Date 15-Mar-2016 Version 1

# 1. IDENTIFICATION

Product identifier

Product Name CP-83 MP Resin

Other means of identification

Product Code 316B5 Synonyms None

Recommended use of the chemical and restrictions on use

Recommended Use Industrial Coatings
Uses advised against No information available

Details of the supplier of the safety data sheet

Manufacturer Address BLOME INTERNATIONAL 1450 Hoff Industrial Drive O'Fallon, MO 63366

Emergency telephone number

Company Phone Number 636-379-9119

Emergency Telephone CHEMTREC: 800-424-9300 CHEMTREC: 703-527-3887

CANUTEC: 613-966-6666

# 2. HAZARDS IDENTIFICATION

#### Classification

# **OSHA Regulatory Status**

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Skin corrosion/irritation	Category 2
Serious eye damage/eye irritation	Category 2A
Skin sensitization	Category 1

# Label elements

# **Emergency Overview**

#### Warning

#### **Hazard statements**

Causes skin irritation Causes serious eye irritation May cause an allergic skin reaction



#### Appearance viscous Semi-Solid

#### Physical state liquid

**Odor** Slight Solvent

# **Precautionary Statements - Prevention**

Wash face, hands and any exposed skin thoroughly after handling Wear protective gloves/protective clothing/eye protection/face protection Avoid breathing dust/fume/gas/mist/vapors/spray Contaminated work clothing should not be allowed out of the workplace

#### **Precautionary Statements - Response**

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing If eye irritation persists: Get medical advice/attention IF ON SKIN: Wash with plenty of soap and water Take off contaminated clothing and wash before reuse

#### **Precautionary Statements - Disposal**

Dispose of contents/container to an approved waste disposal plant

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

#### Hazards not otherwise classified (HNOC)

Not applicable

#### Other Information

May be harmful if swallowed. Harmful to aquatic life with long lasting effects.

#### **Unknown acute toxicity**

88% of the mixture consists of ingredient(s) of unknown toxicity

# 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### Substance

Not applicable

#### Mixture

Chemical Name	CAS No	Weight-%
Quartz *	14808-60-7	30 - 60
Bisphenol A-epichlorohydrin polymer *	25068-38-6	30 - 60
Phenol, polymer with formaldehyde, glycidyl ether *	28064-14-4	3 - 7
Silica, amorphous, precipitated and gel *	112926-00-8	1 - 5
Titanium dioxide *	13463-67-7	1 - 5

<sup>\*</sup>The exact percentage (concentration) of composition has been withheld as a trade secret.

# 4. FIRST AID MEASURES

#### Description of first aid measures

General advice If symptoms persist, call a physician. Do not breathe dust/fume/gas/mist/vapors/spray. Do

not get in eyes, on skin, or on clothing.

Eye contact Immediately flush with plenty of water. After initial flushing, remove any contact lenses and

continue flushing for at least 15 minutes. Keep eye wide open while rinsing. If symptoms

persist, call a physician.

**Skin contact** Wash off immediately with plenty of water for at least 15 minutes. Wash contaminated

clothing before reuse. If skin irritation persists, call a physician.

**Inhalation** Remove to fresh air. If symptoms persist, call a physician.

Ingestion Rinse mouth. Drink plenty of water. Do not induce vomiting without medical advice. Never

give anything by mouth to an unconscious person. Call a physician or poison control center

immediately.

**Self-protection of the first aider**Use personal protective equipment as required.

Most important symptoms and effects, both acute and delayed

**Symptoms** May cause redness and tearing of the eyes. May cause skin irritation. Redness.

Indication of any immediate medical attention and special treatment needed

Note to physicians May cause sensitization in susceptible persons. Treat symptomatically.

# 5. FIRE-FIGHTING MEASURES

#### Suitable extinguishing media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Dry chemical, CO2, sand, earth, water spray or regular foam.

Unsuitable extinguishing media Do not use a solid water stream as it may scatter and spread fire.

# Specific hazards arising from the chemical

In the event of fire and/or explosion do not breathe fumes. May cause sensitization in susceptible persons. Thermal decomposition can lead to release of irritating and toxic gases and vapors.

#### **Explosion data**

Sensitivity to Mechanical Impact None. Sensitivity to Static Discharge None.

## Protective equipment and precautions for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

# 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal precautions Use personal protective equipment as required. Avoid contact with eyes and skin. Evacuate

personnel to safe areas. Keep people away from and upwind of spill/leak.

Environmental precautions

**Environmental precautions** Prevent entry into waterways, sewers, basements or confined areas. Do not flush into

surface water or sanitary sewer system. Prevent further leakage or spillage if safe to do so.

Prevent product from entering drains.

Methods and material for containment and cleaning up

**Methods for containment** Prevent further leakage or spillage if safe to do so.

Methods for cleaning up

Use personal protective equipment as required. Dam up. Soak up with inert absorbent

material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Take up

mechanically, placing in appropriate containers for disposal. Clean contaminated surface

thoroughly.

# 7. HANDLING AND STORAGE

Precautions for safe handling

Advice on safe handling Use personal protective equipment as required. Ensure adequate ventilation, especially in

confined areas. Use with local exhaust ventilation. Do not breathe

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

### Conditions for safe storage, including any incompatibilities

Storage Conditions Keep out of the reach of children. Keep containers tightly closed in a cool, well-ventilated

place. Keep in properly labeled containers.

**Incompatible materials** Strong oxidizing agents. Strong acids. Strong bases.

#### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Control parameters

**Exposure Guidelines** This product, as supplied, does not contain any hazardous materials with occupational

exposure limits established by the region specific regulatory bodies.

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Quartz 14808-60-7	TWA: 0.025 mg/m³ respirable fraction	: (30)/(%SiO2 + 2) mg/m³ TWA total dust : (250)/(%SiO2 + 5) mppcf TWA respirable fraction : (10)/(%SiO2 + 2) mg/m³ TWA respirable fraction	IDLH: 50 mg/m³ respirable dust TWA: 0.05 mg/m³ respirable dust
Silica, amorphous, precipitated and gel 112926-00-8	-	TWA: 20 mppcf : (80)/(% SiO2) mg/m³ TWA	-
Titanium dioxide 13463-67-7	TWA: 10 mg/m <sup>3</sup>	TWA: 15 mg/m³ total dust	IDLH: 5000 mg/m <sup>3</sup>

NIOSH IDLH Immediately Dangerous to Life or Health

#### **Appropriate engineering controls**

Engineering Controls Showers

Eyewash stations Ventilation systems.

#### Individual protection measures, such as personal protective equipment

**Eye/face protection** Wear safety glasses with side shields (or goggles).

**Skin and body protection** Wear protective gloves and protective clothing.

**Respiratory protection** If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved

respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be

provided in accordance with current local regulations.

General Hygiene Considerations When using do not eat, drink or smoke. Wash contaminated clothing before reuse. Regular

cleaning of equipment, work area and clothing is recommended.

# 9. PHYSICAL AND CHEMICAL PROPERTIES

# Information on basic physical and chemical properties

Physical state liquid

Appearanceviscous Semi-SolidOdorSlight Solvent

Color pigmented Odor threshold No information available

<u>Property</u> <u>Values</u> <u>Remarks • Method</u>

pH No information available
Melting point / freezing point
Boiling point / boiling range No information available
> 120 °C / > 248 °F

Flash point 198 °C / 388 °F Pensky-Martens Closed Cup (PMCC)

**Evaporation rate** No information available

Flammability (solid, gas) No information available

Flammability Limit in Air

Upper flammability limit:
Lower flammability limit:
Vapor pressure
Vapor density

No information available
No information available
No information available

Relative density 1.5

Water solubility partially soluble

Solubility in other solvents No information available **Partition coefficient** No information available **Autoignition temperature** No information available **Decomposition temperature** No information available Kinematic viscosity No information available **Dynamic viscosity** No information available **Explosive properties** Not an explosive **Oxidizing properties** Not applicable

Other Information

Softening point No information available Molecular weight No information available

VOC Content (%) 0 g/L

Density No information available Bulk density No information available

# 10. STABILITY AND REACTIVITY

#### Reactivity

No data available

#### **Chemical stability**

Stable under recommended storage conditions.

#### **Possibility of Hazardous Reactions**

None under normal processing.

## **Conditions to avoid**

Elevated Temperature. Incompatible materials.

# Incompatible materials

Strong oxidizing agents. Strong acids. Strong bases.

# **Hazardous Decomposition Products**

Thermal decomposition can lead to release of irritating and toxic gases and vapors.

# 11. TOXICOLOGICAL INFORMATION

#### Information on likely routes of exposure

# **Product Information**

**Inhalation** No data available.

**Eye contact** Irritating to eyes.

**Skin contact** Irritating to skin. Repeated or prolonged skin contact may cause allergic reactions with

susceptible persons.

**Ingestion** No data available.

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Quartz	= 500 mg/kg (Rat)	-	-
14808-60-7			
Bisphenol A-epichlorohydrin	= 11400 mg/kg (Rat)	-	-
polymer			
25068-38-6			

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Titanium dioxide	> 10000 mg/kg (Rat)	-	-
13463-67-7			

# Information on toxicological effects

Symptoms May cause skin irritation. May cause an allergic skin reaction. May cause redness and

tearing of the eyes.

# Delayed and immediate effects as well as chronic effects from short and long-term exposure

**Sensitization** May cause sensitization by skin contact.

Germ cell mutagenicity No information available.

**Carcinogenicity**This product contains titanium dioxide which is classified as a possible carcinogen when present as respirable dust. This is not relevant for this product since it is a liquid. This

present as respirable dust. This is not relevant for this product since it is a liquid. This product contains crystalline silica (quartz) in a non-respirable form. Inhalation of crystalline

silica is unlikely to occur from exposure to this product.

Chemical Name	ACGIH	IARC	NTP	OSHA
Quartz 14808-60-7	A2	Group 1	Known	X
Silica, amorphous, precipitated and gel 112926-00-8	-	Group 3	-	-
Titanium dioxide 13463-67-7	-	Group 2B	-	Х

ACGIH (American Conference of Governmental Industrial Hygienists)

A2 - Suspected Human Carcinogen

IARC (International Agency for Research on Cancer)

Group 1 - Carcinogenic to Humans

Group 2B - Possibly Carcinogenic to Humans Not classifiable as a human carcinogen NTP (National Toxicology Program)

Known - Known Carcinogen

OSHA (Occupational Safety and Health Administration of the US Department of Labor)

X - Present

Reproductive toxicity
STOT - single exposure
STOT - repeated exposure
No information available.
No information available.

Chronic toxicity Repeated contact may cause allergic reactions in very susceptible persons. Avoid repeated

exposure.

Target Organ Effects Eyes, Skin, Central nervous system, Respiratory system, lungs.

Aspiration hazard No information available.

#### Numerical measures of toxicity - Product Information

# The following values are calculated based on chapter 3.1 of the GHS document .

**ATEmix (oral)** 4,000.00 mg/kg

#### 12. ECOLOGICAL INFORMATION

#### **Ecotoxicity**

Toxic to aquatic life with long lasting effects

88 % of the mixture consists of components(s) of unknown hazards to the aquatic environment

#### Persistence and degradability

No information available.

#### **Bioaccumulation**

No information available.

#### Other adverse effects

No information available

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# 13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Disposal of wastes

Disposal should be in accordance with applicable regional, national and local laws and

regulations.

**Contaminated packaging** Do not reuse container.

# 14. TRANSPORT INFORMATION

**DOT** Not regulated

TDG Not regulated

<u>IATA</u>

UN/ID no UN3082

**Proper shipping name** Environmentally hazardous substance, liquid, n.o.s.

Hazard Class 9
Packing Group III
ERG Code 9L

Special Provisions A97, A158, A197

Description UN3082, Environmentally hazardous substance, liquid, n.o.s. (Bisphenol A-epichlorohydrin

polymer), 9, III

**IMDG** 

UN/ID no UN3082

**Proper shipping name** Environmentally hazardous substance, liquid, n.o.s.

Hazard Class 9
Packing Group III
EmS-No F-A, S-F
Special Provisions 274, 335

**Description** UN3082, Environmentally hazardous substance, liquid, n.o.s. (Bisphenol A-epichlorohydrin

polymer), 9, III

# 15. REGULATORY INFORMATION

**International Inventories** 

TSCA Complies
DSL/NDSL Complies
EINECS/ELINCS Complies
IECSC Complies
KECL Complies
PICCS Complies
AICS Complies

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

**DSL/NDSL** - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

**ENCS** - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

**KECL** - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

## **US Federal Regulations**

#### **SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any

chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

# SARA 311/312 Hazard Categories

Acute health hazard Yes
Chronic Health Hazard No
Fire hazard No
Sudden release of pressure hazard No
Reactive Hazard No

#### **CWA (Clean Water Act)**

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

#### CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material

### **US State Regulations**

# **California Proposition 65**

This product contains the following Proposition 65 chemicals

Chemical Name	California Proposition 65
Quartz - 14808-60-7	Carcinogen
Titanium dioxide - 13463-67-7	Carcinogen

# **U.S. State Right-to-Know Regulations**

Chemical Name	New Jersey	Massachusetts	Pennsylvania
Quartz	Х	X	Х
14808-60-7			
Silica, amorphous, precipitated and	X	X	X
gel			
112926-00-8			
Titanium dioxide	X	X	X
13463-67-7			

# U.S. EPA Label Information

EPA Pesticide Registration Number Not applicable

# 16. OTHER INFORMATION, INCLUDING DATE OF PREPARATION OF THE LAST REVISION

NFPA Health hazards 2 Flammability 1 Instability 0 Physical and Chemical Properties 
HMIS Health hazards 2 Flammability 1 Physical hazards 0 Personal protection X

Issue Date 15-Mar-2016
Revision Date 15-Mar-2016
Revision Note

No information available

**Disclaimer** 

The information provided in this Material Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

**End of Safety Data Sheet**