## 1. Identification

Product identifier **H20UT PART A RESIN** 

Other means of identification

SKU# 734 A

Recommended use Not available.
Recommended restrictions None known.

Manufacturer/Importer/Supplier/Distributor information

Manufacturer

Company name Pioneer Research Corp.
Address 3110 N. 19th Ave

Phoenix, AZ 85015

Telephone 602-230-0012

Websitewww.pioneerresearchcorporation.comE-mailsales@pioneerresearchcorporation.com

Contact person EHS Department

**Emergency phone number** Chemtel 800-255-3924 International T01-813-248-0585

# 2. Hazard(s) identification

Physical hazards Not classified.

Health hazards Skin corrosion/irritation Category 2

Serious eye damage/eye irritation Category 2
Sensitization, skin Category 1
Hazardous to the aquatic environment. Category 2

long-term hazard

OSHA defined hazards Not classified.

Label elements

**Environmental hazards** 



Signal word Warning

Hazard statement Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation. Toxic to

aquatic life with long lasting effects.

Precautionary statement

**Prevention** Wash thoroughly after handling. Contaminated work clothing must not be allowed out of the

workplace. Avoid release to the environment. Wear protective gloves. Wear eye/face protection.

**Response** 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 skin irritation or rash occurs: Get medical advice/attention. If eye irritation persists: Get medical advice/attention. Take

off contaminated clothing and wash before reuse. Collect spillage.

**Storage** Store away from incompatible materials.

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

Hazard(s) not otherwise

classified (HNOC)

None known.

**Supplemental information** 6.43% of the mixture consists of component(s) of unknown long-term hazards to the aquatic

environment.

## 3. Composition/information on ingredients

#### **Mixtures**

Chemical name	Common name and synonyms	CAS number	%
Crystalline SiO2 (Quartz)		14808-60-7	30 - 60
Epoxy Resin:reaction Product Of Bisphenol A And Epichlorohydrin (refer To Epichlorohydrin)		25068-38-6	30 - 60
Oxirane, [(2-methylphenoxy)methyl]-		2210-79-9	10 - 30
Other components below reportable levels	 S		< 5

<sup>\*</sup>Designates that a specific chemical identity and/or percentage of composition has been withheld as a trade secret.

## 4. First-aid measures

Inhalation Move to fresh air. Call a physician if symptoms develop or persist.

Remove contaminated clothing immediately and wash skin with soap and water. Remove Skin contact

contaminated clothing. In case of eczema or other skin disorders: Seek medical attention and take

along these instructions. Wash contaminated clothing before reuse.

Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if Eve contact

present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists.

Rinse mouth. Get medical attention if symptoms occur. Ingestion

Most important

symptoms/effects, acute and

delayed

Dermatitis. Rash. Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Skin irritation. May cause redness and pain. May cause an allergic skin

reaction.

Indication of immediate medical attention and special

treatment needed General information Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed.

Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Wash contaminated clothing before reuse.

## 5. Fire-fighting measures

Suitable extinguishing media

Unsuitable extinguishing

media

Specific hazards arising from the chemical

Special protective equipment

and precautions for firefighters

Fire-fighting

equipment/instructions

Specific methods

General fire hazards

Water spray. Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).

Do not use water jet as an extinguisher, as this will spread the fire.

During fire, gases hazardous to health may be formed.

Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Move containers from fire area if you can do so without risk.

Use standard firefighting procedures and consider the hazards of other involved materials.

No unusual fire or explosion hazards noted.

### 6. Accidental release measures

Personal precautions. protective equipment and emergency procedures

Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Keep out of low areas. Wear appropriate protective equipment and clothing during clean-up. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

Methods and materials for containment and cleaning up Stop the flow of material, if this is without risk. Collect spillage. Dike far ahead of spill for later disposal. Use water spray to reduce vapors or divert vapor cloud drift. Prevent entry into waterways, sewer, basements or confined areas. Following product recovery, flush area with water

Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS

**Environmental precautions** 

Avoid release to the environment. Contact local authorities in case of spillage to drain/aquatic environment. Prevent further leakage or spillage if safe to do so. Do not contaminate water. Avoid discharge into drains, water courses or onto the ground.

## 7. Handling and storage

**Precautions for safe handling** Avoid contact with eyes, skin, and clothing. Provide adequate ventilation. Wear appropriate

personal protective equipment. Observe good industrial hygiene practices. Avoid release to the

environment. Do not empty into drains.

Conditions for safe storage, including any incompatibilities

Store in original tightly closed container. Store away from incompatible materials (see Section 10

of the SDS).

## 8. Exposure controls/personal protection

### Occupational exposure limits

US. OSHA Table Z-3 (29 CFR 1910.1000)

Components	Туре	Value	Form
Crystalline SiO2 (Quartz) (CAS 14808-60-7)	TWA	0.3 mg/m3	Total dust.
		0.1 mg/m3	Respirable.
		2.4 mppcf	Respirable.
<b>US. ACGIH Threshold Limit Value</b>	es		
Components	Туре	Value	Form
Crystalline SiO2 (Quartz) (CAS 14808-60-7)	TWA	0.025 mg/m3	Respirable fraction.
US. NIOSH: Pocket Guide to Che	mical Hazards		
Components	Type	Value	Form
Crystalline SiO2 (Quartz) (CAS 14808-60-7)	TWA	0.05 mg/m3	Respirable dust.

**Biological limit values**No biological exposure limits noted for the ingredient(s).

**Exposure guidelines** Occupational Exposure Limits are not relevant to the current physical form of the product.

Appropriate engineering controls

Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Eye wash facilities and emergency shower must be available when handling this product.

Individual protection measures, such as personal protective equipment

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

**Hand protection** Wear appropriate chemical resistant gloves.

Skin protection

Other Wear appropriate chemical resistant clothing.

**Respiratory protection** In case of insufficient ventilation, wear suitable respiratory equipment.

**Thermal hazards** Wear appropriate thermal protective clothing, when necessary.

General hygiene considerations

Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Contaminated work clothing should not be allowed out of the

workplace.

### 9. Physical and chemical properties

**Appearance** Paste.

Physical state Not available.

Form Paste.

**Color** Cement Gray (when resin and hardener are mixed)

Odor Slight.

Odor thresholdNot available.pHNot available.Melting point/freezing pointNot available.Initial boiling point and boilingNot available.

range

Flash point 250.0 °F (121.1 °C)
Evaporation rate Not available.

Not available. Flammability (solid, gas)

Upper/lower flammability or explosive limits

Flammability limit - lower (%)

Flammability limit - upper

(%)

Not available.

Not available.

Explosive limit - lower (%) Not available. Not available. Explosive limit - upper (%) Vapor pressure Not available.

Vapor density > 1

Relative density Not available.

Solubility(ies)

Solubility (water) Not available. Not available. **Partition coefficient** 

(n-octanol/water)

**Auto-ignition temperature** Not available. **Decomposition temperature** Not available. Not available. **Viscosity** 

Other information

1.75 g/cm3 Density

Flammability class Combustible IIIB estimated

Specific gravity 1.75

10. Stability and reactivity

The product is stable and non-reactive under normal conditions of use, storage and transport. Reactivity

Avoid temperatures exceeding the flash point. Contact with incompatible materials.

Material is stable under normal conditions. Chemical stability Possibility of hazardous Hazardous polymerization does not occur.

reactions

Incompatible materials Strong oxidizing agents.

**Hazardous decomposition** 

Conditions to avoid

products

No hazardous decomposition products are known.

#### 11. Toxicological information

Information on likely routes of exposure

Ingestion Expected to be a low ingestion hazard.

Inhalation No adverse effects due to inhalation are expected.

Causes skin irritation. May cause an allergic skin reaction. Skin contact

Eye contact Causes serious eye irritation.

Dermatitis. Rash. Severe eye irritation. Symptoms may include stinging, tearing, redness, Symptoms related to the swelling, and blurred vision. Skin irritation. May cause redness and pain. May cause an allergic physical, chemical and skin reaction. toxicological characteristics

Information on toxicological effects

**Acute toxicity** May cause an allergic skin reaction.

Causes skin irritation. Skin corrosion/irritation

Serious eve damage/eve

irritation

Causes serious eye irritation.

Respiratory or skin sensitization

Respiratory sensitization Not available.

Skin sensitization May cause an allergic skin reaction.

Germ cell mutagenicity No data available to indicate product or any components present at greater than 0.1% are

mutagenic or genotoxic.

Carcinogenicity

IARC Monographs. Overall Evaluation of Carcinogenicity

Crystalline SiO2 (Quartz) (CAS 14808-60-7) 1 Carcinogenic to humans.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

US. National Toxicology Program (NTP) Report on Carcinogens

Crystalline SiO2 (Quartz) (CAS 14808-60-7) Known To Be Human Carcinogen.

Reproductive toxicity This product is not expected to cause reproductive or developmental effects.

Specific target organ toxicity -

single exposure

Not classified.

Specific target organ toxicity -

repeated exposure

Not classified.

Not available. **Aspiration hazard** 

12. Ecological information

**Ecotoxicity** Toxic to aquatic life with long lasting effects. Accumulation in aquatic organisms is expected.

Persistence and degradability Not available. Bioaccumulative potential Not available. Mobility in soil No data available.

Other adverse effects No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation

potential, endocrine disruption, global warming potential) are expected from this component.

13. Disposal considerations

**Disposal instructions** Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Do not allow

this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches

with chemical or used container. Dispose of contents/container in accordance with

local/regional/national/international regulations.

Local disposal regulations

Dispose in accordance with all applicable regulations.

Hazardous waste code

The waste code should be assigned in discussion between the user, the producer and the waste

disposal company.

Waste from residues / unused

products

Dispose of in accordance with local regulations. Empty containers or liners may retain some

product residues. This material and its container must be disposed of in a safe manner (see:

Disposal instructions).

Empty containers should be taken to an approved waste handling site for recycling or disposal. Contaminated packaging

Since emptied containers may retain product residue, follow label warnings even after container is

emptied.

14. Transport information

DOT

Not regulated as dangerous goods.

**IATA** 

**UN** number UN3082

Environmentally hazardous substance, liquid, n.o.s. (Epoxy Resin:--reaction Product Of UN proper shipping name

Bisphenol A And Epichlorohydrin (refer To Epichlorohydrin))

Transport hazard class(es)

9 Class Subsidiary risk Ш Packing group **Environmental hazards** Yes 9L **ERG Code** 

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

Other information

Passenger and cargo

aircraft

Allowed.

Cargo aircraft only

Allowed.

**IMDG** 

**UN number** UN3082

UN proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Epoxy Resin:--reaction

Product Of Bisphenol A And Epichlorohydrin (refer To Epichlorohydrin)), MARINE POLLUTANT

Transport hazard class(es)

Class 9
Subsidiary risk Packing group III
Environmental hazards

Liviloimental nazards

Marine pollutant Yes EmS F-A, S-F

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

Not applicable.

Transport in bulk according to Annex II of MARPOL 73/78 and

the IBC Code

IATA; IMDG



#### Marine pollutant



General information IMDG Regulated Marine Pollutant.

## 15. Regulatory information

US federal regulations This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication

Standard, 29 CFR 1910.1200.

All components are on the U.S. EPA TSCA Inventory List.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

CERCLA Hazardous Substance List (40 CFR 302.4)

Not listed.

SARA 304 Emergency release notification

Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories Immediate Hazard - Yes

Delayed Hazard - No Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous No

chemical

Yes

#### SARA 313 (TRI reporting)

Chemical name	CAS number	% by wt.	
Aluminium Oxide	1344-28-1	0.1 - 1	
IPA - Isopropyl Alcohol	67-63-0	0.1 - 1	

#### Other federal regulations

#### Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated.

## Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

Safe Drinking Water Act

Not regulated.

(SDWA)

### **US state regulations**

#### **US. Massachusetts RTK - Substance List**

Crystalline SiO2 (Quartz) (CAS 14808-60-7)

### US. New Jersey Worker and Community Right-to-Know Act

Crystalline SiO2 (Quartz) (CAS 14808-60-7)

## US. Pennsylvania Worker and Community Right-to-Know Law

Crystalline SiO2 (Quartz) (CAS 14808-60-7)

## **US. Rhode Island RTK**

Not regulated.

#### **US. California Proposition 65**

WARNING: This product contains a chemical known to the State of California to cause cancer and birth defects or other reproductive harm.

### US - California Proposition 65 - CRT: Listed date/Carcinogenic substance

Attapulgite (CAS 12174-11-7)

Carbon Black (CAS 1333-86-4)

Crystalline SiO2 (Quartz) (CAS 14808-60-7)

Titanium Dioxide (CAS 13463-67-7)

Listed: December 28, 1999

Listed: February 21, 2003

Listed: October 1, 1988

Listed: September 2, 2011

## US - California Proposition 65 - CRT: Listed date/Developmental toxin

Chloromethane (CAS 74-87-3)

US - California Proposition 65 - CRT: Listed date/Male reproductive toxin

Chloromethane (CAS 74-87-3)

Listed: August 7, 2009

#### **International Inventories**

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	No
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	No
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No
Korea	Existing Chemicals List (ECL)	No
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	No

<sup>\*</sup>A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

Toxic Substances Control Act (TSCA) Inventory

## 16. Other information, including date of preparation or last revision

 Issue date
 5-21-15

 Revision date
 5-21-15

 Version #
 01

United States & Puerto Rico

**HMIS® ratings** Health: 2

Flammability: 1 Physical hazard: 1 Personal protection: B

NFPA ratings Health: 2

Flammability: 1 Instability: 1

Disclaimer The information in the sheet was written based on the best knowledge and experience currently

available.

**Revision Information** This document has undergone significant changes and should be reviewed in its entirety.

### 1. Identification

Product identifier H20UT PART B HARDENER

Other means of identification

SKU# 734 B

Recommended use Not available.
Recommended restrictions None known.

Manufacturer/Importer/Supplier/Distributor information

Manufacturer

Company name Pioneer Research Corp. Address 3110 N. 19th Ave

Phoenix, AZ 85015

TelephoneCustomer Service602-230-0012Websitewww.pioneerresearchcorporation.comE-mailsales@pioneerresearchcorporation.com

Contact person EHS Department

Emergency phone number Chemtel 800-255-3924

International T01-813-248-0585

## 2. Hazard(s) identification

Physical hazards Not classified.

Health hazards Acute toxicity, dermal Category 4

Skin corrosion/irritation Category 1
Serious eye damage/eye irritation Category 1
Sensitization, skin Category 1
Hazardous to the aquatic environment, Category 3

**Environmental hazards** Hazardous to the aquatic environment,

long-term hazard

OSHA defined hazards Not classified.

Label elements



Signal word Danger

Hazard statement Harmful in contact with skin. Causes severe skin burns and eye damage. May cause an allergic

skin reaction. Causes serious eye damage. Harmful to aquatic life with long lasting effects.

**Precautionary statement** 

Prevention Wash thoroughly after handling. Contaminated work clothing must not be allowed out of the

workplace. Avoid release to the environment. Wear protective gloves/protective clothing/eye

protection/face protection.

Response If swallowed: Rinse mouth. Do NOT induce vomiting. If on skin (or hair): Take off immediately all

contaminated clothing. Rinse skin with water/shower. If inhaled: Remove person to fresh air and keep comfortable for breathing. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If skin irritation or rash occurs: Get medical advice/attention. Take off contaminated clothing and wash before reuse.

Storage Store locked up.

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

Hazard(s) not otherwise

classified (HNOC)

None known.

Supplemental information None.

# 3. Composition/information on ingredients

#### **Mixtures**

Chemical name	Common name and synonyms	CAS number	%
Crystalline SiO2 (Quartz)		14808-60-7	60 - 100
Amidoamine		Trade Secret	10 - 30
Silicon Dioxide		112945-52-5	1 - 5
Titanium Dioxide		13463-67-7	0.1 - 1
Other components below reportable	levels		5 - 10

<sup>\*</sup>Designates that a specific chemical identity and/or percentage of composition has been withheld as a trade secret.

### 4. First-aid measures

Inhalation Move to fresh air. Call a physician if symptoms develop or persist.

Skin contact Remove contaminated clothing immediately and wash skin with soap and water. Take off

immediately all contaminated clothing. Chemical burns must be treated by a physician. Wash

contaminated clothing before reuse.

Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if Eye contact

present and easy to do. Continue rinsing.

Call a physician or poison control center immediately. Rinse mouth. Do not induce vomiting. If Ingestion

vomiting occurs, keep head low so that stomach content doesn't get into the lungs.

Most important symptoms/effects, acute and

delayed

Indication of immediate medical attention and special treatment needed

Burning pain and severe corrosive skin damage. Causes serious eye damage. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result.

Provide general supportive measures and treat symptomatically. Chemical burns: Flush with water immediately. While flushing, remove clothes which do not adhere to affected area. Call an ambulance. Continue flushing during transport to hospital. Keep victim warm. Keep victim under observation. Symptoms may be delayed.

**General information** 

Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance. Wash contaminated clothing before reuse.

## 5. Fire-fighting measures

Suitable extinguishing media

Unsuitable extinguishing media

Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2). Do not use water jet as an extinguisher, as this will spread the fire.

Specific hazards arising from the chemical

During fire, gases hazardous to health may be formed.

Special protective equipment and precautions for firefighters

Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Fire-fighting equipment/instructions Move containers from fire area if you can do so without risk.

Specific methods General fire hazards

Use standard firefighting procedures and consider the hazards of other involved materials.

No unusual fire or explosion hazards noted.

### 6. Accidental release measures

Personal precautions. protective equipment and emergency procedures

Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Keep out of low areas. Wear appropriate protective equipment and clothing during clean-up. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

Methods and materials for containment and cleaning up Stop the flow of material, if this is without risk, Collect spillage. Dike far ahead of spill for later disposal. Prevent entry into waterways, sewer, basements or confined areas. Following product recovery, flush area with water.

Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS.

**Environmental precautions** 

Avoid release to the environment. Contact local authorities in case of spillage to drain/aquatic environment. Prevent further leakage or spillage if safe to do so. Do not contaminate water. Avoid discharge into drains, water courses or onto the ground.

# 7. Handling and storage

**Precautions for safe handling** Do not get in eyes, on skin, or on clothing. When using, do not eat, drink or smoke. Provide

adequate ventilation. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Observe good industrial hygiene practices. Wash contaminated clothing before

reuse. Avoid release to the environment. Do not empty into drains.

Conditions for safe storage, including any incompatibilities

Store locked up. Store in original tightly closed container. Store away from incompatible materials (see Section 10 of the SDS).

## 8. Exposure controls/personal protection

## Occupational exposure limits

US. OSHA Table Z-1 Limits for Air	Contaminants (29 CFR 1910.1000)
0	T a

Components	Туре	Value	Form
Titanium Dioxide (CAS 13463-67-7)	PEL	15 mg/m3	Total dust.
US. OSHA Table Z-3 (29 CFR 191) Components	0.1000) Type	Value	Form
Crystalline SiO2 (Quartz) (CAS 14808-60-7)	TWA	0.3 mg/m3	Total dust.
,		0.1 mg/m3	Respirable.
		2.4 mppcf	Respirable.
Silicon Dioxide (CAS 112945-52-5)	TWA	0.8 mg/m3	
,		20 mppcf	
US. ACGIH Threshold Limit Value	es		
Components	Туре	Value	Form
Crystalline SiO2 (Quartz) (CAS 14808-60-7)	TWA	0.025 mg/m3	Respirable fraction.
Titanium Dioxide (CAS 13463-67-7)	TWA	10 mg/m3	
US. NIOSH: Pocket Guide to Che	mical Hazards		
Components	Туре	Value	Form
Crystalline SiO2 (Quartz) (CAS 14808-60-7)	TWA	0.05 mg/m3	Respirable dust.
Silicon Dioxide (CAS	TWA	6 mg/m3	

Biological limit values No biological exposure limits noted for the ingredient(s).

**Exposure guidelines**Occupational Exposure Limits are not relevant to the current physical form of the product.

Appropriate engineering controls

112945-52-5)

Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Eye wash facilities and emergency shower must be available when handling this product.

# Individual protection measures, such as personal protective equipment

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

Hand protection

Wear appropriate chemical resistant gloves.

Skin protection

Other Wear appropriate chemical resistant clothing.

**Respiratory protection** In case of insufficient ventilation, wear suitable respiratory equipment.

**Thermal hazards** Wear appropriate thermal protective clothing, when necessary.

General hygiene considerations

Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Contaminated work clothing should not be allowed out of the workplace.

# 9. Physical and chemical properties

Appearance Paste.

Physical state Not available.

Paste. **Form** 

Color Cement Gray (when resin and hardener are mixed)

Odor Ammoniacal. Not available. Odor threshold Ha Alkaline Melting point/freezing point Not available.

Initial boiling point and boiling

range

392 °F (200 °C) estimated

212.0 °F (100.0 °C) estimated Flash point

Not available. **Evaporation rate** Flammability (solid, gas) Not available. Upper/lower flammability or explosive limits Flammability limit - lower Not available.

(%)

Flammability limit - upper

Not available.

(%)

Explosive limit - lower (%) Not available. Explosive limit - upper (%) Not available. Vapor pressure 4.8 hPa estimated Vapor density Not available. Relative density Not available.

Solubility(ies)

Solubility (water) Not available. Partition coefficient Not available.

(n-octanol/water)

Not available. **Auto-ignition temperature Decomposition temperature** Not available. Not available. **Viscosity** 

Other information

Density 1.75 g/cm3

Flammability class Combustible IIIB estimated

Specific gravity 1.75

## 10. Stability and reactivity

Reactivity The product is stable and non-reactive under normal conditions of use, storage and transport.

Chemical stability Material is stable under normal conditions. Possibility of hazardous Hazardous polymerization does not occur.

reactions

Avoid temperatures exceeding the flash point. Contact with incompatible materials.

Incompatible materials Strong oxidizing agents.

Hazardous decomposition

Conditions to avoid

No hazardous decomposition products are known.

products

### 11. Toxicological information

Information on likely routes of exposure

Ingestion Causes digestive tract burns.

May cause irritation to the respiratory system. Inhalation

Skin contact Causes severe skin burns. Harmful in contact with skin. May cause an allergic skin reaction.

**Eve contact** Causes serious eye damage.

Symptoms related to the physical, chemical and toxicological characteristics Burning pain and severe corrosive skin damage. Causes serious eye damage. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result.

Information on toxicological effects

**Acute toxicity** Harmful in contact with skin. May cause an allergic skin reaction.

**Skin corrosion/irritation** Causes severe skin burns and eye damage.

Serious eve damage/eve

irritation

Causes serious eye damage.

Respiratory or skin sensitization

**Respiratory sensitization** Not available.

**Skin sensitization** May cause an allergic skin reaction.

**Germ cell mutagenicity**No data available to indicate product or any components present at greater than 0.1% are

mutagenic or genotoxic.

Carcinogenicity

IARC Monographs. Overall Evaluation of Carcinogenicity

Crystalline SiO2 (Quartz) (CAS 14808-60-7) 1 Carcinogenic to humans.

Silicon Dioxide (CAS 112945-52-5)

3 Not classifiable as to carcinogenicity to humans.

Titanium Dioxide (CAS 13463-67-7) 2B Possibly carcinogenic to humans.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

**US. National Toxicology Program (NTP) Report on Carcinogens** 

Crystalline SiO2 (Quartz) (CAS 14808-60-7) Known To Be Human Carcinogen.

**Reproductive toxicity**This product is not expected to cause reproductive or developmental effects.

Specific target organ toxicity -

single exposure

Not classified.

Specific target organ toxicity -

repeated exposure

Not classified.

Aspiration hazard Not available.

12. Ecological information

Ecotoxicity Harmful to aquatic life with long lasting effects. Accumulation in aquatic organisms is expected.

Persistence and degradability Not available.

Bioaccumulative potential Not available.

Mobility in soil No data available.

Other adverse effects No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation

potential, endocrine disruption, global warming potential) are expected from this component.

13. Disposal considerations

**Disposal instructions**Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Do not allow

this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches

with chemical or used container. Dispose of contents/container in accordance with

local/regional/national/international regulations.

**Local disposal regulations** Dispose in accordance with all applicable regulations.

Hazardous waste code The waste code should be assigned in discussion between the user, the producer and the waste

disposal company.

Waste from residues / unused

products

Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see:

Disposal instructions).

**Contaminated packaging** Empty containers should be taken to an approved waste handling site for recycling or disposal.

Since emptied containers may retain product residue, follow label warnings even after container is

emptied.

14. Transport information

DOT

UN number UN1760

**UN proper shipping name** Corrosive liquids, n.o.s. (Amidoamine)

Transport hazard class(es)

Class 8
Subsidiary risk Label(s) 8
Packing group III

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

Special provisions IB3, T7, TP1, TP28

Packaging exceptions154Packaging non bulk203Packaging bulk241

**IATA** 

UN number UN1760

**UN proper shipping name** Corrosive liquid, n.o.s. (Amidoamine)

Transport hazard class(es)

Class 8
Subsidiary risk Packing group III
Environmental hazards No.
ERG Code 8L

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

Other information

Passenger and cargo

aircraft

Allowed.

Cargo aircraft only

Allowed.

**IMDG** 

UN number UN1760

UN proper shipping name CORROSIVE LIQUID, N.O.S. (Amidoamine)

Not applicable.

Transport hazard class(es)

Class 8
Subsidiary risk Packing group III
Environmental hazards

Marine pollutant No. EmS F-A, S-B

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

Transport in bulk according to Annex II of MARPOL 73/78 and

the IBC Code

DOT



### IATA; IMDG



# 15. Regulatory information

**US federal regulations** 

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

One or more components are not listed on TSCA.

### TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

**CERCLA Hazardous Substance List (40 CFR 302.4)** 

Not listed.

SARA 304 Emergency release notification

Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories Immediate Hazard - Yes

Delayed Hazard - No Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous

No

chemical

SARA 313 (TRI reporting)

Chemical nameCAS number% by wt.Aluminium Oxide1344-28-10.1 - 1

#### Other federal regulations

### Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

Safe Drinking Water Act

Not regulated.

(SDWA)

## **US state regulations**

#### **US. Massachusetts RTK - Substance List**

Crystalline SiO2 (Quartz) (CAS 14808-60-7)

Silicon Dioxide (CAS 112945-52-5) Titanium Dioxide (CAS 13463-67-7)

US. New Jersey Worker and Community Right-to-Know Act

Crystalline SiO2 (Quartz) (CAS 14808-60-7)

Titanium Dioxide (CAS 13463-67-7)

## US. Pennsylvania Worker and Community Right-to-Know Law

Crystalline SiO2 (Quartz) (CAS 14808-60-7)

Silicon Dioxide (CAS 112945-52-5) Titanium Dioxide (CAS 13463-67-7)

## **US. Rhode Island RTK**

Not regulated.

## **US. California Proposition 65**

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins.

## US - California Proposition 65 - CRT: Listed date/Carcinogenic substance

Attapulgite (CAS 12174-11-7)

Crystalline SiO2 (Quartz) (CAS 14808-60-7)

Listed: December 28, 1999

Listed: October 1, 1988

Listed: September 2, 2011

## International Inventories

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	No
Canada	Domestic Substances List (DSL)	No
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes

Country(s) or region	Inventory name	On inventory (yes/no)*
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	No
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No
Korea	Existing Chemicals List (ECL)	No
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	No

<sup>\*</sup>A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

# 16. Other information, including date of preparation or last revision

Issue date5-21-15Revision date5-21-15Version #01HMIS® ratingsHealth: 3

Health: 3 Flammability: 1 Physical hazard: 0 Personal protection: X

NFPA ratings Health: 3 Flammability: 1

Instability: 0

**Disclaimer** The information in the sheet was written based on the best knowledge and experience currently

available.

**Revision Information**This document has undergone significant changes and should be reviewed in its entirety.

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).