Material Safety Data Sheet: MEGA-CRETE FAST CURE BASE

Supercedes Date 08/01/2011 **Issuing Date** 07/29/2014

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name MEGA-CRETE FAST CURE BASE
Recommended use Patching compound
Information on Manufacturer
Mega Metals,Partsmaster,Div of NCH Corp.
P.O. Box 655326
Dallas, TX 75265-5326

Product Code 57562901
Chemical nature Organic solvent
Emergency Telephone Number
CHEMTREC® 800-424-9300

2. HAZARDS IDENTIFICATION

Emergency Overview
WARNING!
Combustible liquid and vapor
Causes skin irritation
Causes eye irritation
Prolonged or repeated inhalation may cause damage to the lungs
Aspiration hazard if swallowed - can enter lungs and cause damage
Keep out of reach of children

Color dark brown **Physical State** Liquid **Odor** Sweet

Potential Health Effects

Principle Route of Exposure Skin contact, Eye contact, Inhalation.

Primary Routes of Entry Inhalation, Ingestion, Skin Absorption.

Acute Effects

Eyes Contact with eyes may cause irritation.

Skin May cause irritation seen as itching and redness . Repeated exposure may cause skin dryness or cracking.

Inhalation Inhalation may cause central nervous system effects. Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and in extreme cases, loss of consciousness. May cause central nervous system depression.

Ingestion Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. Aspiration hazard if swallowed - can enter lungs and cause damage. May be fatal if swallowed and enters airways.

Chronic Toxicity Prolonged skin contact may cause skin irritation and/or dermatitis.

Target Organ Effects Central nervous system, Kidney, Respiratory system.

Aggravated Medical Conditions Neurological disorders, Central nervous system, Kidney disorders.

Potential Environmental Effects See Section 12 for additional Ecological information.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Component	CAS-No	Weight %
Polyether polyol blend	----------	60-100
Stoddard solvent	8052-41-3	10-30

4. FIRST AID MEASURES

General advice Avoid contact with skin, eyes and clothing. Avoid breathing vapors, mist, or gas.

Eye Contact Rinse thoroughly with plenty of water, also under the eyelids. Get medical attention if irritation develops and persists.

Skin Contact Wash off immediately with plenty of water for at least 15 minutes. Remove contaminated clothing and shoes. Get medical attention if irritation develops and persists. Wash contaminated clothing before re-use.

Inhalation If inhaled, remove to fresh air. Get medical attention if symptoms occur. Call a physician or poison control center immediately.

Ingestion If swallowed. Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person. Drink 1 or 2 glasses of water. Consult a physician. Do NOT induce vomiting. Get medical attention immediately.

Notes to physician Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Flash Point 141 °F / 61 °C **Method** Tag closed cup

Autoignition Temperature No information available.

Upper 5. **Lower** .7

Suitable Extinguishing Media

Carbon dioxide (CO2). Dry chemical. Water spray.

Unsuitable Extinguishing Media

Do NOT use water jet.

Specific hazards arising from the chemical

Solvent vapors are heavier than air and may spread along floors. Vapors may ignite and explode. Material can create slippery conditions.

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.

NFPA	**Health** 1	**Flammability** 2	**Instability** 0
HMIS	**Health** 1	**Flammability** 2	**Instability** 0

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions	Remove all sources of ignition. Ensure adequate ventilation. Use personal protective equipment. Prevent further leakage or spillage if safe to do so. Material can create slippery conditions.
Environmental Precautions	Do not flush into surface water or sanitary sewer system.
Methods for Containment	Contain spillage, soak up with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and transfer to a container for disposal according to local / national regulations (see section 13)
Methods for Cleaning Up	Pick up and transfer to properly labeled containers
Neutralizing Agent	Not applicable.

7. HANDLING AND STORAGE

Handling	Keep away from open flames, hot surfaces and sources of ignition. Take precautionary measures against static discharges. Avoid contact with skin, eyes and clothing. Avoid breathing vapors, mist or gas.
Storage	Keep away from open flames, hot surfaces and sources of ignition. Store in original container. Keep containers tightly closed in a dry, cool and well-ventilated place.

Storage Temperature	**Minimum**	77 °F / 25 °C		**Maximum**	86 °F / 30 °C		
Storage Conditions	**Indoor**	X	**Outdoor**	**Heated**		**Refrigerated**	

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Guidelines

Component	ACGIH TLV	OSHA PEL	NIOSH
Stoddard solvent	TWA: 100 ppm	TWA: 500 ppm TWA: 2900 mg/m^3	20000 mg/m^3 Ceiling: 1800 mg/m^3 TWA: 350 mg/m^3

Engineering Measures	Ensure adequate ventilation, especially in confined areas
Personal Protective Equipment	
Eye/Face Protection	Safety glasses with side-shields.
Skin Protection	Wear suitable protective clothing, Impervious gloves.
Respiratory Protection	In case of inadequate ventilation wear respiratory protection. When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.
General Hygiene Considerations	Do not eat, drink or smoke when using this product. Avoid contact with skin and clothing. Wash hands and face before breaks and immediately after handling the product. Ensure that eyewash stations and safety showers are close to the workstation location.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State	Liquid	**Viscosity**	250 cps
Color	dark brown	**Odor**	Sweet
Appearance	Translucent	**pH**	Not applicable
Specific Gravity	.995	**Evaporation Rate**	<1 (ether = 1)
Percent Volatile (Volume)	No information available	**VOC Content (%)**	No information available
VOC Content (g/L)	109.0	**Vapor Pressure**	No information available
Vapor Density	(Air = 1.0)	**Solubility**	Insoluble
Boiling Point/Range	400 °F / 204 °C		

10. STABILITY AND REACTIVITY

Chemical Stability	Stable. Hazardous polymerization does not occur.
Conditions to Avoid	Keep away from open flames, hot surfaces, and sources of ignition
Incompatible Products	Strong acids, Strong bases, Isocyanates, Oxidizing agents.
Hazardous Decomposition Products	Carbon oxides, Nitrogen oxides (NOx), Fumes.
Possibility of Hazardous Reactions	None under normal processing

11. TOXICOLOGICAL INFORMATION

Product Information: No information available.

Component Information

Acute Toxicity

Chronic Toxicity

Component	Mutagenicity	Sensitization	Developmental Toxicity	Reproductive Toxicity	Target Organ Effects
Stoddard solvent	no data available	no data available	no data available	no data available	eyes,CNS,respiratory system,skin,kidneys

Carcinogenicity: There are no known carcinogenic chemicals in this product.

12. ECOLOGICAL INFORMATION

Product Information: No information available.

Component Information

Persistence and Degradability: No information available.
Bioaccumulation: No information available.
Mobility: No information available.

13. DISPOSAL CONSIDERATIONS

Product Disposal: Dispose of in accordance with local regulations.
Container Disposal: Empty containers should be taken for local recycling, recovery, or waste disposal.

14. TRANSPORT INFORMATION

DOT

- **Proper Shipping Name**: <119 gallons - not regulated; >119 gallons: Petroleum distillates, n.o.s.
- **Hazard Class**: 3
- **UN-No**: UN1268
- **Packing Group**: III
- **Description**: UN1268, Petroleum distillates, n.o.s., 3, PG III

TDG

- **Proper shipping name**: Petroleum distillates, n.o.s.
- **Hazard Class**: 3
- **UN-No**: UN1268
- **Packing Group**: III
- **Description**: PETROLEUM DISTILLATES, N.O.S.(STODDARD SOLVENT),3,UN1268,PG III

ICAO

- **UN-No**: UN1268
- **Proper Shipping Name**: Petroleum distillates, n.o.s.
- **Hazard Class**: 3
- **Packing Group**: III
- **Shipping Description**: UN1268, Petroleum distillates, n.o.s.,(Stoddard Solvent), 3,PG III

IATA

- **UN-No**: UN1268
- **Proper Shipping Name**: Petroleum distillates, n.o.s.
- **Hazard Class**: 3
- **Packing Group**: III
- **ERG Code**: 3L
- **Shipping Description**: UN1268,Petroleum distillates, n.o.s.,(Stoddard Solvent), 3,PG III

IMDG/IMO

- **Proper Shipping Name**: Petroleum distillates, n.o.s.
- **Hazard Class**: 3
- **UN-No**: UN1268
- **Packing Group**: III
- **EmS No.**: F-E, S-E

Shipping Description UN1268, Petroleum distillates, n.o.s.,(Stoddard Solvent), 3,PG III

15. REGULATORY INFORMATION

Inventories
TSCA Complies
DSL Complies
U.S. 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 and Title 40 of the Code of Federal Regulations, Part 372.

SARA 311/312 Hazardous Categorization

Acute Health Hazard	Chronic Health Hazard	Fire Hazard	Sudden Release of Pressure Hazard	Reactive Hazard
Yes	Yes	Yes	No	No

CERCLA

U.S. State Regulations
California Proposition 65 This product does not contain any Proposition 65 chemicals.

Canada
This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.
WHMIS Hazard Class
B3 Combustible liquid, D2B Toxic materials.

16. OTHER INFORMATION

Prepared By Christopher Drogin
Supercedes Date 08/01/2011
Issuing Date 07/29/2014
Reason for Revision No information available.
Glossary No information available.
List of References. No information available.

Mega Metals,Partsmaster,Div of NCH Corp.assumes no responsibility for personal injury or property damage caused by the use, storage, or disposal of the product in a manner not recommended on the product label. Users assume all risks associated with such unrecommended use, storage or disposal of the product. The information provided on this document 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 guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as 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 material or in any process, unless specified in the text.

Material Safety Data Sheet: MEGA-CRETE FAST CURE ACTIVATOR

Supercedes Date 08/01/2011 **Issuing Date** 07/29/2014

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name MEGA-CRETE FAST CURE ACTIVATOR
Recommended use Patching compound
Information on Manufacturer
Mega Metals,Partsmaster,Div of NCH Corp.
P.O. Box 655326
Dallas, TX 75265-5326

Product Code 57562902
Chemical nature Plasticizers - Isocyanates
Emergency Telephone Number
CHEMTREC® 800-424-9300

2. HAZARDS IDENTIFICATION

Emergency Overview
DANGER
Causes eye irritation
Causes skin irritation
May cause allergic skin reaction
May cause allergic respiratory reaction
Harmful if swallowed
Keep out of reach of children

Color dark brown **Physical State** Liquid **Odor** Hydrocarbon

Potential Health Effects

Principle Route of Exposure Eye contact, Skin contact, Inhalation.
Primary Routes of Entry Inhalation, Skin Absorption.
Acute Effects
Eyes Causes eye irritation.
Skin Causes skin irritation. May cause sensitization by skin contact.
Inhalation May cause irritation of respiratory tract. May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause sensitization by inhalation.
Ingestion Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.
Chronic Toxicity Prolonged skin contact may defat the skin and produce dermatitis. Prolonged or repeated inhalation may cause damage to the lungs. May cause respiratory sensitization in some individuals . May cause sensitization by skin contact.
Target Organ Effects Respiratory system, Skin.
Aggravated Medical Conditions Skin disorders, Respiratory disorders.
Potential Environmental Effects See Section 12 for additional Ecological information.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Component	CAS-No	Weight %
Polymeric diphenylmethane diisocyanate	9016-87-9	30-60
Methyllenediphenyl diisocyanate	101-68-8	10-30
Di-propylheptyl phthalate	53306-54-0	10-30
Methylenediphenyl diisocyanate	26447-40-5	5-10

4. FIRST AID MEASURES

General advice Avoid contact with skin, eyes and clothing. Avoid breathing vapors, mist, or gas.
Eye Contact Wash off with warm water. Rinse thoroughly with plenty of water, also under the eyelids. Get medical attention.
Skin Contact Wipe up with absorbent material (e.g. cloth, fleece). Get medical attention if irritation develops and persists. Wash contaminated clothing before re-use. Wash off with soap and plenty of water.
Inhalation If inhaled, remove to fresh air. Get medical attention immediately. If breathing has stopped, apply artificial respiration. The substance has delayed effects.
Ingestion Do NOT induce vomiting. Rinse mouth. Drink 1 or 2 glasses of water. Consult a physician.
Notes to physician Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Flash Point 390 °F / 199 °C **Method** Pensky Marten Closed Tester
Autoignition Temperature No information available.
Upper 0 **Lower** .30
Suitable Extinguishing Media
Water spray. Carbon dioxide (CO2). Foam. Dry chemical.
Unsuitable Extinguishing Media

Do NOT use water jet. The reaction between water and large amounts of hot isocyanate may be vigorous
.

Specific hazards arising from the chemical

Material can create slippery conditions. Keep product and empty container away from heat and sources of ignition.

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.

NFPA	**Health** 2	**Flammability** 1	**Instability** 1
HMIS	**Health** 2	**Flammability** 1	**Instability** 1

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions Evacuate personnel to safe areas. Remove all sources of ignition. Ventilate the area. Use personal protective equipment. Prevent further leakage or spillage if safe to do so. Material can create slippery conditions.

Environmental Precautions Do not flush into surface water or sanitary sewer system.

Methods for Containment Remove all sources of ignition Contain spillage, soak up with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and transfer to a container for disposal according to local / national regulations (see section 13)

Methods for Cleaning Up Neutralise with or decontaminate with a mixture of 90% water, 3-8 % ammonium hydroxide or concentrated ammonia, and 2% liquid detergent. Cover spill area with absobent material. Saturate absorbent material with neutralization solution and mix. Wait 15 minutes. Collect material in a open-head metal container. Repeat application as needed. Apply lid loosely and allow containers to vent for 72 hours.

Neutralizing Agent Not applicable.

7. HANDLING AND STORAGE

Handling Avoid contact with skin, eyes and clothing. Avoid breathing vapors, mist or gas. Ensure adequate ventilation.

Storage Keep containers tightly closed in a dry, cool and well-ventilated place. Store in original container.

Storage Temperature	**Minimum**	77 °F / 25 °C		**Maximum**	86 °F / 30 °C		
Storage Conditions	**Indoor**	X	**Outdoor**	**Heated**		**Refrigerated**	

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Guidelines

Component	ACGIH TLV	OSHA PEL	NIOSH
Methyllenediphenyl diisocyanate	TWA: 0.005 ppm	Ceiling: 0.02 ppm Ceiling: 0.2 mg/m^3	75 mg/m^3 Ceiling: 0.020 ppm Ceiling: 0.2 mg/m^3 TWA: 0.005 ppm TWA: 0.05 mg/m^3
Methylenediphenyl diisocyanate	No data available	Ceiling: 0.02 ppm Ceiling: 0.2 mg/m^3	No data available

Engineering Measures Ensure adequate ventilation, especially in confined areas.

Personal Protective Equipment

Eye/Face Protection Safety glasses with side-shields.

Skin Protection For prolonged or repeated contact, use protective gloves with appropriate chemical resistance.

Respiratory Protection In case of inadequate ventilation wear respiratory protection.

General Hygiene Considerations Ensure that eyewash stations and safety showers are close to the workstation location. Wash hands before breaks and at the end of workday. Do not eat, drink or smoke when using this product. Remove and wash contaminated clothing before re-use.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State	Liquid	**Viscosity**	250 cps
Color	dark brown	**Odor**	Hydrocarbon
Appearance	Textured black paste	**pH**	Not applicable
Specific Gravity	1.142	**Evaporation Rate**	<1 (ether = 1)
Percent Volatile (Volume)	No information available	**VOC Content (%)**	0
Vapor Pressure	No information available	**Vapor Density**	Heavier than air
Solubility	Insoluble	**Boiling Point/Range**	406 °F / 208 °C

10. STABILITY AND REACTIVITY

Chemical Stability Stable. Polymerization can occur. Hazardous polymerization does not occur.

Conditions to Avoid Do not freeze, Protect from moisture, At high temperatures.

Incompatible Products Acids, Bases, Alcohols, Amines, Copper alloys, Water, The reaction with water is slow at 122°F (50°C) .

Hazardous Decomposition Products Carbon oxides, Nitrogen oxides (NOx), Hydrogen cyanide, Isocyanides, Smoke.

Possibility of Hazardous Reactions None under normal processing

11. TOXICOLOGICAL INFORMATION

Product Information No information available.

Component Information

Acute Toxicity

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation	Draize Test	Other
Polymeric diphenylmethane diisocyanate	no data available	no data available	= 490 mg/m^3 (Rat) 4 h	no data available	no data available
Methylenediphenyl diisocyanate	> 7400 mg/kg (Rat)	> 6200 mg/kg (Rabbit)	= 0.369 mg/L (Rat) 4 h = 369 mg/m^3 (Rat) 4 h	no data available	no data available
Di-propylheptyl phthalate	> 2000 mg/kg (Rat)	no data available	no data available	no data available	no data available
Methylenediphenyl diisocyanate	> 7400 mg/kg (Rat)	> 6200 mg/kg (Rabbit)	= 0.369 mg/L (Rat) 4 h	no data available	no data available

Chronic Toxicity

Component	Mutagenicity	Sensitization	Developmental Toxicity	Reproductive Toxicity	Target Organ Effects
Polymeric diphenylmethane diisocyanate	no data available	Skin sensitizer and respiratory sensitizer	no data available	no data available	immune system
Methylenediphenyl diisocyanate	no data available	Skin sensitizer and respiratory sensitizer	no data available	no data available	eyes,respiratory system, immune system

Carcinogenicity There are no known carcinogenic chemicals in this product.

Component	ACGIH	IARC	NTP	OSHA	Other
Polymeric diphenylmethane diisocyanate	not applicable	Group 3	not applicable	not applicable	not applicable
Methylenediphenyl diisocyanate	not applicable	Group 3	not applicable	not applicable	not applicable
Methylenediphenyl diisocyanate	not applicable	Group 3	not applicable	not applicable	not applicable

12. ECOLOGICAL INFORMATION

Product Information No information available.

Component Information

Component	Toxicity to Algae	Toxicity to Fish	Microtox	Water Flea	log Pow
Methylenediphenyl diisocyanate	EC50 = 3230 mg/L Skeletonema costatum 96 h	no data available	no data available	EC50 1000 mg/L Daphnia magna 24 h	N/A
Di-propylheptyl phthalate	EC50 > 500 mg/L Desmodesmus subspicatus 72 h	LC50 > 0.18 mg/L Lepomis macrochirus 96 h LC50 > 0.23 mg/L Pimephales promelas 96 h	no data available	EC50 1 mg/L Daphnia magna 48 h	N/A
Methylenediphenyl diisocyanate	EC50 = 3230 mg/L Skeletonema costatum 96 h	no data available	no data available	EC50 1000 mg/L Daphnia magna 24 h	4.5

Persistence and Degradability No information available.

Bioaccumulation No information available.

Mobility No information available.

13. DISPOSAL CONSIDERATIONS

Product Disposal Dispose of in accordance with local regulations.

Container Disposal Empty containers should be taken for local recycling, recovery, or waste disposal.

14. TRANSPORT INFORMATION

DOT Not regulated

TDG Not regulated

ICAO Not regulated

IATA Not regulated

IMDG/IMO Not regulated

15. REGULATORY INFORMATION

Inventories

TSCA Complies

DSL Complies

U.S. Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

Component	CAS-No	Weight %	SARA 313 - Threshold Values
Polymeric diphenylmethane diisocyanate	9016-87-9	30-60	1.0
Methyllenediphenyl diisocyanate	101-68-8	10-30	1.0
Methylenediphenyl diisocyanate	26447-40-5	5-10	1.0

SARA 311/312 Hazardous Categorization

Acute Health Hazard	Chronic Health Hazard	Fire Hazard	Sudden Release of Pressure Hazard	Reactive Hazard
Yes	Yes	No	No	Yes

CERCLA

Component	Hazardous Substances RQs	CERCLA EHS RQs
Methyllenediphenyl diisocyanate	5000 lb	Not applicable

U.S. State Regulations

California Proposition 65 This product contains the following Proposition 65 chemicals

Component	CAS-No	California Prop. 65
Diisodecyl phthalate	26761-40-0	developmental toxicity

Canada

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.

WHMIS Hazard Class

D1A Very toxic materials, D2A Very toxic materials, D2B Toxic materials.

16. OTHER INFORMATION

Prepared By Christopher Drogin

Supercedes Date 08/01/2011

Issuing Date 07/29/2014

Reason for Revision No information available.

Glossary No information available.

List of References. No information available.

Mega Metals,Partsmaster,Div of NCH Corp.assumes no responsibility for personal injury or property damage caused by the use, storage, or disposal of the product in a manner not recommended on the product label. Users assume all risks associated with such unrecommended use, storage or disposal of the product. The information provided on this document 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 guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as 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 material or in any process, unless specified in the text.

Material Safety Data Sheet: MEGA-AGGREGATE

Supercedes Date 08/12/2011 **Issuing Date** 05/12/2014

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name MEGA-AGGREGATE
Recommended use Filler
Information on Manufacturer
Mega Metals,Partsmaster,Div of NCH Corp.
P.O. Box 655326
Dallas, TX 75265-5326

Product Code PMM57560
Chemical nature Sand
Emergency Telephone Number
CHEMTREC® 800-424-9300

2. HAZARDS IDENTIFICATION

Emergency Overview
CAUTION
May cause skin irritation
May cause eye irritation
May cause respiratory tract irritation

Color White - Tan **Physical State** Solid **Odor** Odorless

Potential Health Effects

Principle Route of Exposure	Inhalation, Skin contact, Eye contact.
Primary Routes of Entry	Inhalation
Acute Effects	
Eyes	May cause eye irritation.
Skin	May cause skin irritation.
Inhalation	May cause irritation of respiratory tract.
Ingestion	Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.
Chronic Toxicity	Occupational health effects due to inhalation of mineral dusts incorporating crystalline silica (quartz, cristobalite, tridymite), crystalline silicates (kaolin, talc) graphite or coal. Inhalation of dust may cause shortness of breath, tightness of the chest, a sore throat and cough. Repeated exposure may cause skin dryness or cracking. Dust causes fibrosis. Contains a known or suspected carcinogen.
Target Organ Effects	Respiratory system, Kidney.
Aggravated Medical Conditions	Skin disorders, Respiratory disorders, Kidney disorders.
Potential Environmental Effects	See Section 12 for additional Ecological information.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Component	CAS-No	Weight %
Crystalline Silica (Quartz)	14808-60-7	60-100

4. FIRST AID MEASURES

General advice	Avoid contact with skin, eyes and clothing. Avoid breathing dust.
Eye Contact	Rinse thoroughly with plenty of water, also under the eyelids. Get medical attention if irritation develops and persists.
Skin Contact	Wipe up with absorbent material (e.g. cloth, fleece). Wash off with soap and plenty of water. Get medical attention if irritation develops and persists. Remove and wash contaminated clothing before re-use.
Inhalation	If inhaled, remove to fresh air. Get medical attention if symptoms occur.
Ingestion	Drink 1 or 2 glasses of water. Do NOT induce vomiting. Get medical attention if symptoms occur. Rinse mouth.
Notes to physician	Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Flash Point Does not flash **Method** Not applicable
Autoignition Temperature No information available.
Flammability Limits in Air % Not applicable. **Upper** No data available **Lower** No data available
Suitable Extinguishing Media
Water spray. Carbon dioxide (CO2). Foam. Dry chemical. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Specific hazards arising from the chemical
The product causes burns of eyes, skin and mucous membranes
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.
NFPA **Health** 1 **Flammability** 0 **Instability** 0

HMIS **Health** 1 **Flammability** 0 **Instability** 0

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions Use personal protective equipment. Ensure adequate ventilation. Prevent further leakage or spillage if safe to do so.
Environmental Precautions Do not flush into surface water or sanitary sewer system.
Methods for Containment Cover powder spill with plastic sheet or tarp to minimize spreading
Methods for Cleaning Up Pick up and arrange disposal without creating dust.
Neutralizing Agent Not applicable.

7. HANDLING AND STORAGE

Handling Avoid contact with skin, eyes and clothing. Avoid breathing dust.
Storage Store in original container. Keep container tightly closed in a dry and well-ventilated place.
Storage Temperature **Minimum** 35 °F / 2 °C **Maximum** 120 °F / 49 °C
Storage Conditions **Indoor** X **Outdoor** **Heated** **Refrigerated**

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Guidelines

Component	ACGIH TLV	OSHA PEL	NIOSH
Crystalline Silica (Quartz)	: 0.025 mg/m^3 TWA (respirable fraction)	No data available	50 mg/m^3 respirable dust TWA: 0.05 mg/m^3

Engineering Measures Ensure adequate ventilation, especially in confined areas. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction.
Personal Protective Equipment
Eye/Face Protection Safety glasses with side-shields.
Skin Protection For prolonged or repeated contact, use protective gloves with appropriate chemical resistance.
Respiratory Protection In case of inadequate ventilation wear respiratory protection. When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.
General Hygiene Considerations Ensure that eyewash stations and safety showers are close to the workstation location. Remove and wash contaminated clothing before re-use.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State	Solid	**Viscosity**	Granular
Color	White - Tan	**Odor**	Odorless
Appearance	Opaque	**pH**	Not applicable
Specific Gravity	2.65	**Evaporation Rate**	0 (Butyl acetate=1)
Percent Volatile (Volume)	0	**VOC Content (%)**	0
VOC Content (g/L)	0	**Vapor Pressure**	0 mmHg @ 70°F
Vapor Density	Not applicable	**Solubility**	Negligible
Boiling Point/Range	Not applicable		

10. STABILITY AND REACTIVITY

Chemical Stability Stable. Hazardous polymerization does not occur.
Conditions to Avoid None known
Incompatible Products Hydrogen fluoride, Fluorinated hydrocarbons.
Hazardous Decomposition Products None under normal use
Possibility of Hazardous Reactions None under normal processing

11. TOXICOLOGICAL INFORMATION

Product Information No information available.

Component Information

Acute Toxicity

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation	Draize Test	Other
Crystalline Silica (Quartz)	= 500 mg/kg (Rat)	no data available	no data available	no data available	no data available

Chronic Toxicity

Component	Mutagenicity	Sensitization	Developmental Toxicity	Reproductive Toxicity	Target Organ Effects
Crystalline Silica (Quartz)	no data available	no data available	no data available	no data available	eyes, respiratory system

					(in animals: lung cancer), kidneys

Carcinogenicity

Component	ACGIH	IARC	NTP	OSHA	Other
Crystalline Silica (Quartz)	A2	Group 1	Known	X	not applicable

12. ECOLOGICAL INFORMATION

Product Information No information available.

Component Information

Component	Toxicity to Algae	Toxicity to Fish	Microtox	Water Flea	log Pow
Crystalline Silica (Quartz)	no data available	no data available	no data available	no data available	N/A

Persistence and Degradability No information available.
Bioaccumulation No information available.
Mobility No information available.

13. DISPOSAL CONSIDERATIONS

Product Disposal Dispose of in accordance with local regulations.
Container Disposal Empty containers should be taken for local recycling, recovery, or waste disposal.

14. TRANSPORT INFORMATION

DOT Not regulated

TDG Not regulated

ICAO Not regulated

IATA Not regulated

IMDG/IMO Not regulated

15. REGULATORY INFORMATION

Inventories
TSCA Complies
DSL Complies
U.S. 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 and Title 40 of the Code of Federal Regulations, Part 372.

SARA 311/312 Hazardous Categorization

Acute Health Hazard	Chronic Health Hazard	Fire Hazard	Sudden Release of Pressure Hazard	Reactive Hazard
Yes	Yes	No	No	No

CERCLA

Component	Hazardous Substances RQs	CERCLA EHS RQs
Crystalline Silica (Quartz)	Not applicable	Not applicable

U.S. State Regulations
California Proposition 65 This product contains the following Proposition 65 chemicals

Component	CAS-No	California Prop. 65
Titanium dioxide	13463-67-7	carcinogen
Crystalline Silica (Quartz)	14808-60-7	carcinogen
Lead	7439-92-1	carcinogen developmental toxicity male reproductive toxicity female reproductive toxicity
Cadmium	7440-43-9	carcinogen developmental toxicity male reproductive toxicity

Cobalt	7440-48-4	carcinogen
Arsenic	7440-38-2	carcinogen

Canada

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.

WHMIS Hazard Class

D2A Very toxic materials, D2B Toxic materials.

16. OTHER INFORMATION

Prepared By	Christopher Drogin
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Glossary	No information available.
List of References.	No information available.

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