

Revision Date: 07/28/2015

This is a kit that contains the following components: VERTICOAT VERTICOAT LIQUID



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# **SAFETY DATA SHEET**

#### 1. Identification

Product identifier: VERTICOAT

Product Code: 046B 96

Recommended use and restriction on use

Recommended use: Cement, Portland, chemicals

Restrictions on use: Not known.

Manufacturer/Importer/Supplier/Distributor Information

EUCLID CHEMICAL COMPANY 19218 REDWOOD ROAD CLEVELAND OH 44110

US

Contact person:EH&S DepartmentTelephone:216-531-9222

**Emergency telephone number:** 1-800-424-9300 (US); 1-613-996-6666 (Canada)

## 2. Hazard(s) identification

## **Hazard Classification**

#### **Health Hazards**

Acute toxicity (Oral)

Skin Corrosion/Irritation

Serious Eye Damage/Eye Irritation

Skin sensitizer

Category 1

Category 1

Category 1B

Carcinogenicity

Category 1A

Specific Target Organ Toxicity 
Category 3

Single Exposure

#### **Unknown toxicity - Health**

Acute toxicity, oral 97.07 %
Acute toxicity, dermal 97.08 %
Acute toxicity, inhalation, vapor 100 %
Acute toxicity, inhalation, dust or mist 100 %

## **Unknown toxicity - Environment**

Acute hazards to the aquatic 98.48 %

environment

Chronic hazards to the aquatic 100 %

environment

#### **Label Elements**

#### **Hazard Symbol:**



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Signal Word: Danger

Hazard Statement: Harmful if swallowed.

Causes skin irritation.

Causes serious eye damage. May cause an allergic skin reaction.

May cause cancer.

May cause respiratory irritation.

Precautionary Statement

**Prevention:** Wash 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 must not be allowed out of the workplace. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Use personal protective equipment as required. Use

only outdoors or in a well-ventilated area.

**Response:** 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 ON SKIN: Wash with plenty of water. If skin irritation or rash occurs: Get medical advice/attention. IF SWALLOWED: Call a POISON CENTER/doctor/ if you feel unwell. Rinse mouth. Immediately call a POISON CENTER/doctor. Specific treatment (see this label). Wash contaminated clothing before

reuse.

**Storage:** Store locked up. Store in well-ventilated place. Keep container tightly

closed.

**Disposal:** Dispose of contents/container to an appropriate treatment and disposal

facility in accordance with applicable laws and regulations, and product

characteristics at time of disposal.

Other hazards which do not result in GHS classification:

None.

## 3. Composition/information on ingredients

#### **Mixtures**

Chemical Identity	CAS number	Content in percent (%)*
Crystalline Silica (Quartz)/ Silica Sand	14808-60-7	40 - 70%



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Portland cement	65997-15-1	40 - 70%
Calcium nitrate	10124-37-5	1 - 5%
Calcium oxide	1305-78-8	1 - 5%

<sup>\*</sup> All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

## 4. First-aid measures

Ingestion: Call a POISON CENTER/doctor/.../if you feel unwell. Rinse mouth.

**Inhalation:** Move to fresh air.

**Skin Contact:** Immediately flush with plenty of water for at least 15 minutes while

removing contaminated clothing and shoes. Wash contaminated clothing

before reuse. Get medical attention.

Eye contact: Immediately flush with plenty of water for at least 15 minutes. If easy to do,

remove contact lenses. Call a physician or poison control center

immediately.

Most important symptoms/effects, acute and delayed

**Symptoms:** Prolonged or repeated contact with skin may cause redness, itching,

irritation and eczema/chapping. Extreme irritation of eyes and mucous membranes, including burning and tearing. Respiratory tract irritation.

Indication of immediate medical attention and special treatment needed

**Treatment:** Symptoms may be delayed.

5. Fire-fighting measures

**General Fire Hazards:** No unusual fire or explosion hazards noted.

Suitable (and unsuitable) extinguishing media

Suitable extinguishing

media:

Use fire-extinguishing media appropriate for surrounding materials.

Unsuitable extinguishing

media:

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

Special fire fighting

procedures:

No data available.

Special protective equipment

for fire-fighters:

Self-contained breathing apparatus and full protective clothing must be

worn in case of fire.

#### 6. Accidental release measures



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Personal precautions, protective equipment and emergency procedures:

See Section 8 of the SDS for Personal Protective Equipment. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Keep unauthorized personnel away.

Methods and material for containment and cleaning

Collect spillage in containers, seal securely and deliver for disposal according to local regulations.

up:
Notification Procedures:

In the event of a spill or accidental release, notify relevant authorities in

accordance with all applicable regulations.

**Environmental Precautions:** 

Do not contaminate water sources or sewer. Prevent further leakage or spillage if safe to do so.

## 7. Handling and storage

Precautions for safe handling:

Do not taste or swallow. Wash hands thoroughly after handling. Do not handle until all safety precautions have been read and understood. Obtain special instructions before use. Use personal protective equipment as required. Do not get in eyes. Avoid contact with skin. Ventilate well, avoid breathing vapors. Use approved respirator if air contamination is above accepted level. Use mechanical ventilation in case of handling which causes formation of dust.

Conditions for safe storage,

including any incompatibilities:

Store locked up.

## 8. Exposure controls/personal protection

#### **Control Parameters**

**Occupational Exposure Limits** 

Chemical Identity	type	Exposure Limit Values	Source
Crystalline Silica	TWA	0.025	US. ACGIH Threshold Limit Values
(Quartz)/ Silica Sand - Respirable fraction.		mg/m3	(2011)
Crystalline Silica	TWA	2.4	US. OSHA Table Z-3 (29 CFR
(Quartz)/ Silica Sand -		millions of	1910.1000) (2000)
Respirable.		particles	
		per cubic	
		foot of air	
	TWA	0.1 mg/m3	US. OSHA Table Z-3 (29 CFR
			1910.1000) (2000)
Crystalline Silica	TWA	0.3 mg/m3	US. OSHA Table Z-3 (29 CFR
(Quartz)/ Silica Sand -			1910.1000) (2000)
Total dust.			
Portland cement -	TWA	1 mg/m3	US. ACGIH Threshold Limit Values
Respirable fraction.			(2011)
Portland cement - Total	PEL	15 mg/m3	US. OSHA Table Z-1 Limits for Air
dust.			Contaminants (29 CFR 1910.1000)
			(02 2006)
Portland cement -	PEL	5 mg/m3	US. OSHA Table Z-1 Limits for Air



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Respirable fraction.			Contaminants (29 CFR 1910.1000) (02 2006)
Portland cement	TWA	50 millions of particles per cubic foot of air	US. OSHA Table Z-3 (29 CFR 1910.1000) (2000)
Calcium oxide	TWA	2 mg/m3	US. ACGIH Threshold Limit Values (2011)
	PEL	5 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)



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Chemical name type Exposure Limit Values		Source		
Crystalline Silica (Quartz)/ Silica Sand - Respirable fraction.	TWA	0.025 mg/m3	Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)	
Crystalline Silica (Quartz)/ Silica Sand - Respirable.	TWAEV	0.10 mg/m3	Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (11 2010)	
Crystalline Silica (Quartz)/ Silica Sand - Respirable dust.	TWA	0.1 mg/m3	Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment) (12 2008)	
Portland cement - Total dust.	TWA	10 mg/m3	Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)	
Portland cement - Respirable fraction.	TWA	3 mg/m3	Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)	
Portland cement	TWAEV	10 mg/m3	Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (11 2010)	
Portland cement - Total dust.	TWA	10 mg/m3		
Portland cement - Respirable dust.	TWA	5 mg/m3	Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment) (12 2008)	
Calcium oxide	TWA	2 mg/m3	Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)	
Calcium oxide	TWAEV	2 mg/m3	Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (11 2010)	
Calcium oxide	TWA	2 mg/m3	Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment) (12 2008)	

# Appropriate Engineering Controls

Mechanical ventilation or local exhaust ventilation may be required. Observe good industrial hygiene practices. Observe occupational exposure limits and minimize the risk of inhalation of dust.



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

**General information:** Provide easy access to water supply and eye wash facilities. 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.

**Eve/face protection:** Wear a full-face respirator, if needed. Wear safety glasses with side shields

(or goggles) and a face shield.

**Skin Protection** 

**Hand Protection:** Use suitable protective gloves if risk of skin contact.

Other: Wear suitable protective clothing. Wear chemical-resistant gloves, footwear,

and protective clothing appropriate for the risk of exposure. Contact health

and safety professional or manufacturer for specific information.

Respiratory Protection: In case of inadequate ventilation use suitable respirator. Seek advice from

local supervisor.

Hygiene measures: Observe good industrial hygiene practices. Do not eat, drink or smoke

when using the product. Wash hands after handling. Wash hands before breaks and immediately after handling the product. Do not get in eyes. Wash contaminated clothing before reuse. Avoid contact with skin.

#### 9. Physical and chemical properties

#### **Appearance**

Physical state: solid
Form: Powder
Color: Gray
Odor: Odorless

Odor threshold:

pH:

No data available.

Flash Point:

No data available.

No data available.

No data available.

Flammability (solid, gas): No Upper/lower limit on flammability or explosive limits

Flammability limit - upper (%):

Flammability limit - lower (%):

Explosive limit - upper (%):

Explosive limit - lower (%):

No data available.

No data available.

No data available.

Vapor pressure:

Vapor density:

No data available.

No data available.

Relative density: 2.75



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Solubility(ies)

Solubility in water:
Solubility (other):
No data available.
Partition coefficient (n-octanol/water):
No data available.
No data available.
No data available.
Viscosity:
No data available.

#### 10. Stability and reactivity

Reactivity: No data available.

Chemical Stability: Material is stable under normal conditions.

**Possibility of Hazardous** 

Reactions:

No data available.

**Conditions to Avoid:** Avoid heat or contamination.

Incompatible Materials: No data available.

**Hazardous Decomposition** 

**Products:** 

Thermal decomposition or combustion may liberate carbon oxides and

other toxic gases or vapors.

#### 11. Toxicological information

Information on likely routes of exposure

**Ingestion:** Harmful if swallowed.

**Inhalation:** In high concentrations, vapors, fumes or mists may irritate nose, throat and

mucus membranes.

**Skin Contact:** May be harmful in contact with skin. Causes skin irritation.

**Eye contact:** Causes serious eye damage.

## Information on toxicological effects

## Acute toxicity (list all possible routes of exposure)

Oral

**Product:** ATEmix: 586.88 mg/kg

Dermal

**Product:** ATEmix: 3,887.2 mg/kg

Inhalation

**Product:** No data available.

Repeated dose toxicity



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Skin Corrosion/Irritation

**Product:** No data available.

Serious Eye Damage/Eye Irritation

**Product:** No data available.

Specified substance(s):

Calcium nitrate in vivo (Rabbit, 24 - 72 hrs): Category 1

Calcium oxide in vivo (Rabbit, 24 hrs): Category 1

Respiratory or Skin Sensitization

**Product:** No data available.

Carcinogenicity

**Product:** No data available.

IARC Monographs on the Evaluation of Carcinogenic Risks to Humans:

Crystalline Silica

(Quartz)/ Silica

Sand

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

Crystalline Silica Known To Be Human Carcinogen.

Overall evaluation: Carcinogenic to humans.

(Quartz)/ Silica

Sand

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050):

No carcinogenic components identified

**Germ Cell Mutagenicity** 

In vitro

**Product:** No data available.

In vivo

**Product:** No data available.

Reproductive toxicity

**Product:** No data available.

**Specific Target Organ Toxicity - Single Exposure** 

**Product:** No data available.

**Specific Target Organ Toxicity - Repeated Exposure** 



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**Aspiration Hazard** 

**Product:** No data available.

Other effects: No data available.

## 12. Ecological information

#### **Ecotoxicity:**

## Acute hazards to the aquatic environment:

**Fish** 

**Product:** No data available.

Specified substance(s):

Calcium nitrate LC 50 (Bluegill (Lepomis macrochirus), 96 h): 2,400 mg/l Mortality

**Aquatic Invertebrates** 

**Product:** No data available.

## Chronic hazards to the aquatic environment:

Fish

**Product:** No data available.

Specified substance(s):

Calcium oxide NOAEL (Oncorhynchus mykiss, 60 d): 307 mg/l interpreted

**Aquatic Invertebrates** 

**Product:** No data available.

**Toxicity to Aquatic Plants** 

**Product:** No data available.

#### **Persistence and Degradability**

Biodegradation

**Product:** No data available.

**BOD/COD Ratio** 

**Product:** No data available.

## **Bioaccumulative Potential**

**Bioconcentration Factor (BCF)** 

**Product:** No data available.

## Partition Coefficient n-octanol / water (log Kow)



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**Mobility in Soil:** No data available.

Other Adverse Effects: No data available.

## 13. Disposal considerations

**Disposal instructions:** Dispose of waste at an appropriate treatment and disposal facility in

accordance with applicable laws and regulations, and product

characteristics at time of disposal.

Contaminated Packaging: No data available.

## 14. Transport information

TDG:

Not Regulated

CFR / DOT:

Not Regulated

IMDG:

Not Regulated

## 15. Regulatory information

## **US Federal Regulations**

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

None present or none present in regulated quantities.

## US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

<u>Chemical Identity</u> <u>OSHA hazard(s)</u> Formaldehyde Acute toxicity

de Acute toxicity
Skin irritation
Skin sensitization

Flammability

respiratory tract irritation Respiratory sensitization

Cancer Eye irritation



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#### CERCLA Hazardous Substance List (40 CFR 302.4):

Chemical Identity Reportable quantity

Quinoline 5000 lbs. Formaldehyde 100 lbs. Naphthalene 100 lbs.

## Superfund Amendments and Reauthorization Act of 1986 (SARA)

### **Hazard categories**

Immediate (Acute) Health Hazards Delayed (Chronic) Health Hazard

## SARA 302 Extremely Hazardous Substance

<u>Reportable</u>

<u>Chemical Identity</u> <u>quantity</u> <u>Threshold Planning Quantity</u>

Formaldehyde 100 lbs. 500 lbs.

## SARA 304 Emergency Release Notification

Chemical Identity Reportable quantity

Quinoline 5000 lbs. Formaldehyde 100 lbs. Naphthalene 100 lbs.

#### SARA 311/312 Hazardous Chemical

<u>Chemical Identity</u> <u>Threshold Planning Quantity</u>

Formaldehyde 500lbs Crystalline Silica (Quartz)/ 500 lbs

Silica Sand

Portland cement 500 lbs Calcium nitrate 500 lbs Calcium oxide 500 lbs

#### SARA 313 (TRI Reporting)

#### **Chemical Identity**

Calcium nitrate

#### Clean Water Act Section 311 Hazardous Substances (40 CFR 117.3)

None present or none present in regulated quantities.

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

Chemical Identity Reportable quantity

Formaldehyde 15000 lbs

## **US State Regulations**

## **US. California Proposition 65**

This product contains chemical(s) known to the State of California to cause cancer and/or to cause birth defects or other reproductive harm.



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

#### **Chemical Identity**

Crystalline Silica (Quartz)/ Silica Sand Portland cement Calcium nitrate Calcium oxide

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

#### **Chemical Identity**

Crystalline Silica (Quartz)/ Silica Sand Portland cement Calcium oxide Formaldehyde

## US. Pennsylvania RTK - Hazardous Substances

#### **Chemical Identity**

Crystalline Silica (Quartz)/ Silica Sand Portland cement Calcium oxide

#### US. Rhode Island RTK

## **Chemical Identity**

Calcium nitrate

## Other Regulations:

When appropriately mixed with the other part, product has a VOC less water and exempt solvent of:  $8\ g/l$ 

#### **Inventory Status:**

Australia AICS: All components in this product are listed on or

exempt from the Inventory.

Canada DSL Inventory List:

One or more components in this product are

not listed on or exempt from the Inventory.

EINECS, ELINCS or NLP: One or more components in this product are

not listed on or exempt from the Inventory.

Japan (ENCS) List: One or more components in this product are

not listed on or exempt from the Inventory.

China Inv. Existing Chemical Substances: All components in this product are listed on or

exempt from the Inventory.

Korea Existing Chemicals Inv. (KECI): One or more components in this product are

not listed on or exempt from the Inventory.

Canada NDSL Inventory: One or more components in this product are

not listed on or exempt from the Inventory.



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Philippines PICCS: One or more components in this product are

not listed on or exempt from the Inventory.

US TSCA Inventory: One or more components in this product are

not listed on or exempt from the Inventory.

New Zealand Inventory of Chemicals:

All components in this product are listed on or

exempt from the Inventory.

Japan ISHL Listing: One or more components in this product are

not listed on or exempt from the Inventory.

Japan Pharmacopoeia Listing: One or more components in this product are

not listed on or exempt from the Inventory.

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

**Revision Date:** 07/28/2015

Version #: 1.0

Further Information: No data available.

**Disclaimer:** For Industrial Use Only. Keep out of Reach of Children. The hazard

information herein is offered solely for the consideration of the user, subject to their own investigation of compliance with applicable regulations, including

the safe use of the product under every foreseeable condition.



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# **SAFETY DATA SHEET**

#### 1. Identification

Product identifier: VERTICOAT LIQUID

Product Code: 046B 96

Recommended use and restriction on use

Recommended use: Coatings Restrictions on use: Not known.

Manufacturer/Importer/Supplier/Distributor Information

EUCLID CHEMICAL COMPANY 19218 REDWOOD ROAD CLEVELAND OH 44110

US

Contact person:EH&S DepartmentTelephone:216-531-9222

**Emergency telephone number:** 1-800-424-9300 (US); 1-613-996-6666 (Canada)

## 2. Hazard(s) identification

**Hazard Classification** 

Not classified

\_

**Label Elements** 

Hazard Symbol: No symbol

Signal Word: No signal word.

Hazard Statement: not applicable

Precautionary Statement

not applicable

Other hazards which do not result in GHS classification:

None.

## 3. Composition/information on ingredients

#### **Mixtures**

**Composition Comments:** The components are not hazardous or are below required disclosure limits.

## 4. First-aid measures



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**Ingestion:** Rinse mouth thoroughly.

**Inhalation:** Move to fresh air.

**Skin Contact:** Remove contaminated clothing and wash the skin thoroughly with soap and

water after work.

**Eye contact:** Rinse immediately with plenty of water.

Most important symptoms/effects, acute and delayed

**Symptoms:** May cause skin and eye irritation.

Indication of immediate medical attention and special treatment needed

**Treatment:** Get medical attention if symptoms occur.

5. Fire-fighting measures

**General Fire Hazards:** No unusual fire or explosion hazards noted.

Suitable (and unsuitable) extinguishing media

Suitable extinguishing

media:

Use fire-extinguishing media appropriate for surrounding materials.

Unsuitable extinguishing

media:

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

Special fire fighting

procedures:

No data available.

Special protective equipment

for fire-fighters:

Self-contained breathing apparatus and full protective clothing must be

worn in case of fire.

6. Accidental release measures

Personal precautions,

protective equipment and emergency procedures:

No data available.

Methods and material for containment and cleaning

up:

Dam and absorb spillages with sand, earth or other non-combustible material. Collect spillage in containers, seal securely and deliver for

disposal according to local regulations.

**Notification Procedures:** In the event of a spill or accidental release, notify relevant authorities in

accordance with all applicable regulations.



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**Environmental Precautions:** Avoid release to the environment. Prevent further leakage or spillage if safe

to do so. Do not contaminate water sources or sewer. Environmental

manager must be informed of all major spillages.

## 7. Handling and storage

Precautions for safe handling: Provide adequate ventilation. Wear appropriate personal protective

equipment. Observe good industrial hygiene practices. Provide adequate ventilation. Wear appropriate personal protective equipment. Observe good

industrial hygiene practices.

Conditions for safe storage,

including any incompatibilities:

Store away from incompatible materials. Store in original tightly closed

container.

## 8. Exposure controls/personal protection

#### **Control Parameters**

**Occupational Exposure Limits** 

None of the components have assigned exposure limits.

**Appropriate Engineering** 

Controls

Observe good industrial hygiene practices. Observe occupational exposure limits and minimize the risk of inhalation of vapors and mist. Mechanical

ventilation or local exhaust ventilation may be required.

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

**General information:** Use personal protective equipment as required.

**Eye/face protection:** Wear goggles/face shield.

**Skin Protection** 

**Hand Protection:** Use suitable protective gloves if risk of skin contact.

Other: No data available.

**Respiratory Protection:** In case of inadequate ventilation use suitable respirator. Seek advice from

local supervisor.

**Hygiene measures:** Always observe good personal hygiene measures, such as washing after

handling the material and before eating, drinking, and/or smoking. Routinely

wash work clothing to remove contaminants. Discard contaminated

footwear that cannot be cleaned.

#### 9. Physical and chemical properties

#### **Appearance**

Physical state: liquid
Form: liquid
Color: White
Odor: Mild

Odor threshold: No data available.



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**pH**: 8.8

Melting point/freezing point:No data available.Initial boiling point and boiling range:100 °C 212 °FFlash Point:No data available.Evaporation rate:Slower than Ether

Flammability (solid, gas): No Upper/lower limit on flammability or explosive limits

Flammability limit - upper (%):

Flammability limit - lower (%):

Explosive limit - upper (%):

Explosive limit - lower (%):

No data available.

No data available.

No data available.

No data available.

Vapor density: Vapors are heavier than air and may travel along the floor and

in the bottom of containers.

Relative density: 1.02

Solubility(ies)

Solubility in water: Soluble

Solubility (other):

Partition coefficient (n-octanol/water):

Auto-ignition temperature:

No data available.

No data available.

No data available.

Viscosity:

No data available.

## 10. Stability and reactivity

Reactivity: No data available.

**Chemical Stability:** Material is stable under normal conditions.

**Possibility of Hazardous** 

Reactions:

No data available.

**Conditions to Avoid:** Avoid heat or contamination.

**Incompatible Materials:** Strong acids. Strong bases.

**Hazardous Decomposition** 

Products:

Thermal decomposition or combustion may liberate carbon oxides and

other toxic gases or vapors.

## 11. Toxicological information

#### Information on likely routes of exposure

**Ingestion:** May be ingested by accident. Ingestion may cause irritation and malaise.

**Inhalation:** In high concentrations, vapors, fumes or mists may irritate nose, throat and

mucus membranes.

**Skin Contact:** Moderately irritating to skin with prolonged exposure.

**Eye contact:** Eye contact is possible and should be avoided.

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#### Information on toxicological effects

Acute toxicity (list all possible routes of exposure)

Oral

**Product:** No data available.

**Dermal** 

**Product:** No data available.

Inhalation

**Product:** No data available.

Repeated dose toxicity

**Product:** No data available.

Skin Corrosion/Irritation

**Product:** No data available.

Serious Eye Damage/Eye Irritation

**Product:** No data available.

Respiratory or Skin Sensitization

**Product:** No data available.

Carcinogenicity

**Product:** No data available.

IARC Monographs on the Evaluation of Carcinogenic Risks to Humans:

No carcinogenic components identified

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

No carcinogenic components identified

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050):

No carcinogenic components identified

**Germ Cell Mutagenicity** 

In vitro

**Product:** No data available.

In vivo

**Product:** No data available.

Reproductive toxicity



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**Specific Target Organ Toxicity - Single Exposure** 

**Product:** No data available.

**Specific Target Organ Toxicity - Repeated Exposure** 

**Product:** No data available.

**Aspiration Hazard** 

**Product:** No data available.

Other effects: No data available.

## 12. Ecological information

## **Ecotoxicity:**

Acute hazards to the aquatic environment:

Fish

**Product:** No data available.

**Aquatic Invertebrates** 

**Product:** No data available.

Chronic hazards to the aquatic environment:

Fish

**Product:** No data available.

**Aquatic Invertebrates** 

**Product:** No data available.

**Toxicity to Aquatic Plants** 

**Product:** No data available.

**Persistence and Degradability** 

Biodegradation

**Product:** No data available.

**BOD/COD Ratio** 

**Product:** No data available.

**Bioaccumulative Potential** 

**Bioconcentration Factor (BCF)** 



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# Partition Coefficient n-octanol / water (log Kow) Product: No data available.

Mobility in Soil: No data available.

Other Adverse Effects: No data available.

## 13. Disposal considerations

**Disposal instructions:** Dispose of waste at an appropriate treatment and disposal facility in

accordance with applicable laws and regulations, and product

characteristics at time of disposal.

Contaminated Packaging: No data available.

## 14. Transport information

TDG:

Not Regulated

CFR / DOT:

Not Regulated

IMDG:

Not Regulated

## 15. Regulatory information

## **US Federal Regulations**

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

None present or none present in regulated quantities.

## US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Chemical IdentityOSHA hazard(s)FormaldehydeAcute toxicity

Skin irritation
Skin sensitization
Flammability

respiratory tract irritation Respiratory sensitization

Cancer Eye irritation

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#### CERCLA Hazardous Substance List (40 CFR 302.4):

Chemical Identity Reportable quantity

Ammonium hydroxide 1000 lbs. Formaldehyde 100 lbs.

#### Superfund Amendments and Reauthorization Act of 1986 (SARA)

## **Hazard categories**

Not listed.

#### **SARA 302 Extremely Hazardous Substance**

Reportable

<u>Chemical Identity</u> <u>quantity</u> <u>Threshold Planning Quantity</u>

Formaldehyde 100 lbs. 500 lbs.

## **SARA 304 Emergency Release Notification**

Chemical Identity Reportable quantity

Ammonium hydroxide 1000 lbs. Formaldehyde 100 lbs.

## SARA 311/312 Hazardous Chemical

None present or none present in regulated quantities.

Formaldehyde 500lbs

## SARA 313 (TRI Reporting)

None present or none present in regulated quantities.

# Clean Water Act Section 311 Hazardous Substances (40 CFR 117.3)

None present or none present in regulated quantities.

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

<u>Chemical Identity</u> <u>Reportable quantity</u>

Formaldehyde 15000 lbs

## **US State Regulations**

## **US. California Proposition 65**

This product contains chemical(s) known to the State of California to cause cancer and/or to cause birth defects or other reproductive harm.

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

No ingredient regulated by NJ Right-to-Know Law present.

#### US. Massachusetts RTK - Substance List

## **Chemical Identity**

Formaldehyde

#### US. Pennsylvania RTK - Hazardous Substances

No ingredient regulated by PA Right-to-Know Law present.

## **US. Rhode Island RTK**

No ingredient regulated by RI Right-to-Know Law present.

#### Other Regulations:



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When appropriately mixed with the other part, product has a VOC less water and exempt solvent of: 8 g/l

**Inventory Status:** 

Australia AICS: One or more components in this product are

not listed on or exempt from the Inventory.

Canada DSL Inventory List: All components in this product are listed on or

exempt from the Inventory.

EINECS, ELINCS or NLP: One or more components in this product are

not listed on or exempt from the Inventory.

Japan (ENCS) List: One or more components in this product are

not listed on or exempt from the Inventory.

China Inv. Existing Chemical Substances:

One or more components in this product are

not listed on or exempt from the Inventory.

Korea Existing Chemicals Inv. (KECI): One or more components in this product are

not listed on or exempt from the Inventory.

Canada NDSL Inventory: One or more components in this product are

not listed on or exempt from the Inventory.

Philippines PICCS: One or more components in this product are

not listed on or exempt from the Inventory.

US TSCA Inventory: One or more components in this product are

not listed on or exempt from the Inventory.

New Zealand Inventory of Chemicals:

One or more components in this product are

not listed on or exempt from the Inventory.

Japan ISHL Listing:

One or more components in this product are

not listed on or exempt from the Inventory.

Japan Pharmacopoeia Listing:

One or more components in this product are

not listed on or exempt from the Inventory.

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

**Revision Date:** 07/28/2015

Version #: 1.0



Revision Date: 07/28/2015

**Further Information:** No data available.

Disclaimer:

For Industrial Use Only. Keep out of Reach of Children. The hazard information herein is offered solely for the consideration of the user, subject to their own investigation of compliance with applicable regulations, including

the safe use of the product under every foreseeable condition.