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# SAFETY DATA SHEET

#### 1. Identification

Material name: TAMMSCOAT SM ADOBE

Material: TL2210505405

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**

#### **Health Hazards**

Carcinogenicity Category 2

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

Acute toxicity, oral 1.19 %
Acute toxicity, dermal 3.94 %
Acute toxicity, inhalation, vapor 22.81 %
Acute toxicity, inhalation, dust 22.07 %

or mist

#### **Environmental Hazards**

Acute hazards to the aquatic Category 2 environment

#### **Unknown toxicity - Environment**

Acute hazards to the aquatic 60.32 % environment

Chronic hazards to the aquatic 62.81 %

environment

# **Label Elements**

## **Hazard Symbol:**



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Signal Word: Warning

Hazard Statement: Suspected of causing cancer.

Toxic to aquatic life.

Precautionary Statements

**Prevention:** Obtain special instructions before use. Do not handle until all safety

precautions have been read and understood. Use personal protective

equipment as required. Avoid release to the environment.

**Response:** IF exposed or concerned: Get medical advice/attention.

Storage: Store locked up.

**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.

Hazard(s) not otherwise

classified (HNOC):

None.

#### 3. Composition/information on ingredients

# **Mixtures**

| Chemical Identity                           | CAS number | Content in percent (%)* |
|---|------------|-------------------------|
| Crystalline Silica (Quartz)/<br>Silica Sand | 14808-60-7 | 20 - <50%               |
| Titanium dioxide                            | 13463-67-7 | 10 - <20%               |
| Propylene glycol                            | 57-55-6    | 1 - <5%                 |
| Aluminum oxide                              | 1344-28-1  | 0.1 - <1%               |
| Magnesium aluminum silicate                 | 12174-11-7 | 0.1 - <1%               |
| Ethylene glycol                             | 107-21-1   | 0.1 - <1%               |
| Amorphous silica                            | 7631-86-9  | 0.1 - <1%               |
| Zirconium dioxide                           | 1314-23-4  | 0.1 - <1%               |
| Chlorothalonil                              | 1897-45-6  | 0.001 - <1%             |

<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:** Rinse mouth thoroughly.

**Inhalation:** Move to fresh air.



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**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:** 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

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.

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

to do so.



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# 7. Handling and storage

**Precautions for safe handling:** Do not handle until all safety precautions have been read and understood.

Obtain special instructions before use. Use personal protective equipment as required. Provide adequate ventilation. Wear appropriate personal protective equipment. Observe good industrial hygiene practices.

Conditions for safe storage,

including any incompatibilities:

Store locked up.

# 8. Exposure controls/personal protection

## **Control Parameters**

**Occupational Exposure Limits** 

| Chemical Identity   | Туре         | Exposure Limit Values                                    | Source  |
|---|--------------|--|---|
| Crystalline Silica (Quartz)/<br>Silica Sand - Respirable<br>fraction. | TWA          | 0.025 mg/m3  | US. ACGIH Threshold Limit Values (2011)   |
| Crystalline Silica (Quartz)/<br>Silica Sand - Respirable dust.        | TWA          | 0.05 mg/m3   | US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053) (03 2016)  |
|   | OSHA_AC<br>T | 0.025 mg/m3  | US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053) (03 2016)  |
| Crystalline Silica (Quartz)/<br>Silica Sand - Respirable dust.        | PEL          | 0.05 mg/m3   | US. OSHA Table Z-1 Limits for Air<br>Contaminants (29 CFR 1910.1000) (03 2016)                                      |
| Crystalline Silica (Quartz)/<br>Silica Sand - Respirable.             | TWA          | 2.4 millions<br>of particles<br>per cubic foot<br>of air | US. OSHA Table Z-3 (29 CFR 1910.1000)<br>(2000)   |
|   | TWA          | 0.1 mg/m3  | US. OSHA Table Z-3 (29 CFR 1910.1000)<br>(2000)   |
| Titanium dioxide Titanium dioxide - Total dust.                       | TWA<br>PEL   | 10 mg/m3<br>15 mg/m3                                     | US. ACGIH Threshold Limit Values (2011) US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006) |
| Titanium dioxide - Respirable fraction.                               | TWA          | 15 millions of<br>particles per<br>cubic foot of<br>air  | US. OSHA Table Z-3 (29 CFR 1910.1000) (03 2016)   |
| Titanium dioxide - Total dust.  | TWA          | 15 mg/m3   | US. OSHA Table Z-3 (29 CFR 1910.1000) (03 2016)   |
| Titanium dioxide - Respirable fraction.                               | TWA          | 5 mg/m3  | US. OSHA Table Z-3 (29 CFR 1910.1000) (03 2016)   |
| Titanium dioxide - Total dust.  | TWA          | 50 millions of<br>particles per<br>cubic foot of<br>air  | US. OSHA Table Z-3 (29 CFR 1910.1000) (03 2016)   |
| Aluminum oxide - Respirable fraction.                                 | TWA          | 1 mg/m3  | US. ACGIH Threshold Limit Values (2011)   |
|   | PEL          | 5 mg/m3  | US. OSHA Table Z-1 Limits for Air<br>Contaminants (29 CFR 1910.1000) (02 2006)                                      |
| Aluminum oxide - Total dust.  | PEL          | 15 mg/m3   | US. OSHA Table Z-1 Limits for Air<br>Contaminants (29 CFR 1910.1000) (02 2006)                                      |
|   | TWA          | 50 millions of<br>particles per<br>cubic foot of<br>air  | US. OSHA Table Z-3 (29 CFR 1910.1000) (03 2016)   |
| Aluminum oxide - Respirable fraction.                                 | TWA          | 15 millions of<br>particles per<br>cubic foot of<br>air  | US. OSHA Table Z-3 (29 CFR 1910.1000) (03 2016)   |
|   | TWA          | 5 mg/m3  | US. OSHA Table Z-3 (29 CFR 1910.1000) (03   |





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|                                       |      |   | 2016)  |
|---------------------------------------|------|---|--|
| Aluminum oxide - Total dust.          | TWA  | 15 mg/m3  | US. OSHA Table Z-3 (29 CFR 1910.1000) (03 2016)                                |
| Ethylene glycol - Aerosol, inhalable. | STEL | 10 mg/m3  | US. ACGIH Threshold Limit Values (03 2017)                                     |
| Ethylene glycol - Vapor fraction      | TWA  | 25 ppm  | US. ACGIH Threshold Limit Values (03 2017)                                     |
|                                       | STEL | 50 ppm  | US. ACGIH Threshold Limit Values (03 2017)                                     |
| Amorphous silica                      | TWA  | 20 millions of<br>particles per<br>cubic foot of<br>air | US. OSHA Table Z-3 (29 CFR 1910.1000) (2000)                                   |
|                                       | TWA  | 0.8 mg/m3   | US. OSHA Table Z-3 (29 CFR 1910.1000)<br>(2000)                                |
| Zirconium dioxide - as Zr             | STEL | 10 mg/m3  | US. ACGIH Threshold Limit Values (2011)  |
|                                       | TWA  | 5 mg/m3   | US. ACGIH Threshold Limit Values (2011)  |
|                                       | PEL  | 5 mg/m3   | US. OSHA Table Z-1 Limits for Air<br>Contaminants (29 CFR 1910.1000) (02 2006) |

| Chemical name   | Туре | Exposure Limit Values | Source  |
|---|------|-----------------------|---|
| Crystalline Silica (Quartz)/<br>Silica Sand - Respirable<br>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)/<br>Silica Sand - Respirable<br>fraction. | TWA  | 0.10 mg/m3            | Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (06 2015)  |
| Crystalline Silica (Quartz)/<br>Silica Sand - Respirable dust.        | TWA  | 0.1 mg/m3             | Canada. Quebec OELs. (Ministry of Labor -<br>Regulation Respecting the Quality of the Work<br>Environment) (12 2008)  |
| Titanium dioxide - 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) |
| Titanium dioxide - 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) |
| Titanium dioxide  | TWA  | 10 mg/m3              | Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (11 2010)  |
| Titanium dioxide - Total dust.  | TWA  | 10 mg/m3              | Canada. Quebec OELs. (Ministry of Labor -<br>Regulation Respecting the Quality of the Work<br>Environment) (12 2008)  |
| Propylene glycol - Aerosol.   | TWA  | 10 mg/m3              | Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (11 2010)  |
| Propylene glycol - Vapor and aerosol.                                 | TWA  | 50 ppm 155 mg/m3      | Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (06 2015)  |



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| Chemical name   | Туре    | <b>Exposure Limit Values</b>   | Source  |
|---|---------|--|---|
| Crystalline Silica (Quartz)/<br>Silica Sand - Respirable<br>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)/<br>Silica Sand - Respirable<br>fraction. | TWA     | 0.10 mg/m3   | Canada. Ontario OELs. (Control of Exposure to<br>Biological or Chemical Agents) (06 2015)   |
| Crystalline Silica (Quartz)/<br>Silica Sand - Respirable dust.        | TWA     | 0.1 mg/m3  | Canada. Quebec OELs. (Ministry of Labor -<br>Regulation Respecting the Quality of the Work<br>Environment) (12 2008)  |
| Titanium dioxide - Total dust.  | TWA     | 10 mg/m3   | Canada. British Columbia OELs. (Occupationa<br>Exposure Limits for Chemical Substances,<br>Occupational Health and Safety Regulation<br>296/97, as amended) (07 2007) |
| Titanium dioxide - Respirable fraction.                               | TWA     | 3 mg/m3  | Canada. British Columbia OELs. (Occupationa<br>Exposure Limits for Chemical Substances,<br>Occupational Health and Safety Regulation<br>296/97, as amended) (07 2007) |
| Titanium dioxide  | TWA     | 10 mg/m3   | Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (11 2010)  |
| Titanium dioxide - Total dust.  | TWA     | 10 mg/m3   | Canada. Quebec OELs. (Ministry of Labor -<br>Regulation Respecting the Quality of the Work<br>Environment) (12 2008)  |
| Propylene glycol - Aerosol.   | TWA     | 10 mg/m3   | Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (11 2010)  |
| Propylene glycol - Vapor and aerosol.                                 | TWA     | 50 ppm 155 mg/m3   | Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (06 2015)  |
| Aluminum oxide - Respirable.  | TWA     | 1 mg/m3  | Canada. British Columbia OELs. (Occupationa<br>Exposure Limits for Chemical Substances,<br>Occupational Health and Safety Regulation<br>296/97, as amended) (07 2007) |
| Aluminum oxide - Total dust.  | TWA     | 10 mg/m3   | Canada. British Columbia OELs. (Occupationa Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (05 2013)          |
| Aluminum oxide - Respirable fraction.                                 | TWA     | 3 mg/m3  | Canada. British Columbia OELs. (Occupationa Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (05 2013)          |
| Aluminum oxide - Respirable fraction.                                 | TWA     | 1 mg/m3  | Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (11 2010)  |
| Aluminum oxide - Inhalable fraction.                                  | TWA     | 10 mg/m3   | Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (06 2015)  |
| Aluminum oxide - Respirable fraction.                                 | TWA     | 3 mg/m3  | Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (06 2015)  |
| Aluminum oxide - Total dust.<br>- as Al                               | TWA     | 10 mg/m3   | Canada. Quebec OELs. (Ministry of Labor -<br>Regulation Respecting the Quality of the Work<br>Environment) (12 2008)  |
| Magnesium aluminum silicate<br>- Fiber.                               | TWA     | 1 fibres/cm3<br>(non-<br>asbestos<br>fibres) size<br>restrictions<br>apply | Canada. Quebec OELs. (Ministry of Labor -<br>Regulation Respecting the Quality of the Work<br>Environment) (12 2008)  |
| Ethylene glycol - Vapor.  | CEILING | 50 ppm   | Canada. British Columbia OELs. (Occupationa Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)          |
| Ethylene glycol - Aerosol.  | CEILING | 100 mg/m3  | Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)         |
| Ethylene glycol - Particulate.  | TWA     | 10 mg/m3   | Canada. British Columbia OELs. (Occupational  |

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|  |         |                  | Exposure Limits for Chemical Substances,<br>Occupational Health and Safety Regulation<br>296/97, as amended) (07 2007)  |
|--|---------|------------------|---|
|  | STEL    | 20 mg/m3         | Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007) |
| Ethylene glycol - Aerosol.             | CEV     | 100 mg/m3        | Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (11 2010)  |
| Ethylene glycol - Vapor and mist       | CEILING | 50 ppm 127 mg/m3 | Canada. Quebec OELs. (Ministry of Labor -<br>Regulation Respecting the Quality of the Work<br>Environment) (12 2008)  |
| Amorphous silica - Total               | TWA     | 4 mg/m3          | Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007) |
| Amorphous silica -<br>Respirable.      | TWA     | 1.5 mg/m3        | Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007) |
| Amorphous silica -<br>Respirable dust. | TWA     | 6 mg/m3          | Canada. Quebec OELs. (Ministry of Labor -<br>Regulation Respecting the Quality of the Work<br>Environment) (12 2008)  |
| Zirconium dioxide - as Zr              | STEL    | 10 mg/m3         | Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007) |
|  | TWA     | 5 mg/m3          | Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007) |
| Zirconium dioxide - as Zr              | TWA     | 5 mg/m3          | Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (11 2010)  |
|  | STEL    | 10 mg/m3         | Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (11 2010)  |
| Zirconium dioxide - as Zr              | TWA     | 5 mg/m3          | Canada. Quebec OELs. (Ministry of Labor -<br>Regulation Respecting the Quality of the Work<br>Environment) (12 2008)  |
|  | STEL    | 10 mg/m3         | Canada. Quebec OELs. (Ministry of Labor -<br>Regulation Respecting the Quality of the Work<br>Environment) (12 2008)  |
| Talc - Respirable.                     | 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) |
| Talc                                   | TWA     | 2 fibers/mL      | Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (11 2010)  |
| Talc - Respirable fraction.            | TWA     | 2 mg/m3          | Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (06 2015)  |
| Talc - Respirable dust.                | TWA     | 3 mg/m3          | Canada. Quebec OELs. (Ministry of Labor -<br>Regulation Respecting the Quality of the Work<br>Environment) (12 2008)  |
| Ammonium hydroxide                     | STEL    | 35 ppm           | Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007) |
|  | TWA     | 25 ppm           | Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007) |
| Ammonium hydroxide                     | TWA     | 25 ppm           | Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (11 2010)  |
|  | STEL    | 35 ppm           | Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (11 2010)  |



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| Carbon Black - Inhalable           | TWA     |         | 3 mg/m3   | Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (09 2011) |
|------------------------------------|---------|---------|-----------|---|
| Carbon Black - Inhalable fraction. | TWA     |         | 3 mg/m3   | Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (06 2015)  |
| Carbon Black                       | TWA     |         | 3.5 mg/m3 | Canada. Quebec OELs. (Ministry of Labor -<br>Regulation Respecting the Quality of the Work<br>Environment) (12 2008)  |
| Formaldehyde                       | TWA     | 0.3 ppm |           | Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007) |
|                                    | CEILING | 1 ppm   |           | Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007) |
| Formaldehyde                       | STEL    | 1 ppm   |           | Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (11 2010)  |
|                                    | CEV     | 1.5 ppm |           | Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (11 2010)  |
| Formaldehyde                       | CEILING | 2 ppm   | 3 mg/m3   | Canada. Quebec OELs. (Ministry of Labor -<br>Regulation Respecting the Quality of the Work<br>Environment) (12 2008)  |
| Ammonia                            | STEL    | 35 ppm  |           | Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007) |
|                                    | TWA     | 25 ppm  |           | Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007) |
| Ammonia                            | STEL    | 35 ppm  |           | Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (11 2010)  |
|                                    | TWA     | 25 ppm  |           | Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (11 2010)  |
| Ammonia                            | TWA     | 25 ppm  | 17 mg/m3  | Canada. Quebec OELs. (Ministry of Labor -<br>Regulation Respecting the Quality of the Work<br>Environment) (12 2008)  |
|                                    | STEL    | 35 ppm  | 24 mg/m3  | Canada. Quebec OELs. (Ministry of Labor -<br>Regulation Respecting the Quality of the Work<br>Environment) (12 2008)  |
| Cellulose - 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) |
| Cellulose - 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) |
| Cellulose                          | TWA     |         | 10 mg/m3  | Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (11 2010)  |
| Cellulose - Total dust.            | TWA     |         | 10 mg/m3  | Canada. Quebec OELs. (Ministry of Labor -<br>Regulation Respecting the Quality of the Work<br>Environment) (12 2008)  |

# 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.



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**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:** Observe good industrial hygiene practices. Wash hands before breaks and

immediately after handling the product.

# 9. Physical and chemical properties

#### **Appearance**

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

Odor threshold: No data available.

**pH:** 9 - 10

Melting point/freezing point:-0.00 °C 32 °FInitial 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 (%):

No data available.

Vapor pressure:

No data available.

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

in the bottom of containers.

Relative density: 1.4

Solubility(ies)

Solubility in water: Soluble

Solubility (other): No data available.

Partition coefficient (n-octanol/water): No data available.

Auto-ignition temperature:No data available.Decomposition temperature:No data available.Viscosity:No data available.

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## 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

**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.

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

Symptoms related to the physical, chemical and toxicological characteristics

**Inhalation:** No data available.

**Skin Contact:** No data available.

**Eye contact:** No data available.

**Ingestion:** No data available.

Information on toxicological effects

Acute toxicity (list all possible routes of exposure)

Oral

**Product:** Not classified for acute toxicity based on available data.



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Specified substance(s):

Propylene glycol LD 50 (Rat): 22,000 mg/kg

Aluminum oxide LD 50 (Rat): > 10,000 mg/kg

Ethylene glycol LD 50 (Rat): 7,712 mg/kg

Amorphous silica LD 50 (Rat): > 5,000 mg/kg

Zirconium dioxide LD 50 (Rat): > 5,000 mg/kg

Chlorothalonil LD 50 (Rat): 422 mg/kg

**Dermal** 

**Product:** Not classified for acute toxicity based on available data.

Specified substance(s):

Propylene glycol LD 50 (Rabbit): > 2,000 mg/kg

Ethylene glycol LD 50 (Rabbit): 9,530 mg/kg

Amorphous silica LD 50 (Rabbit): > 2,000 mg/kg

Chlorothalonil LD 50 (Rat): > 2,500 mg/kg

Inhalation

**Product:** Not classified for acute toxicity based on available data.

Specified substance(s):

Aluminum oxide LC 50 (Rat): 7.6 mg/l

Amorphous silica LC 50 (Rat): > 2.08 mg/l

Chlorothalonil LC 50 (Rat): 0.10 mg/l

Repeated dose toxicity

**Product:** No data available.



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Skin Corrosion/Irritation

**Product:** No data available.

Specified substance(s):

Propylene glycol in vivo (Rabbit): Not irritant Experimental result, Key study

Aluminum oxide in vivo (Rabbit): Not irritant Experimental result, Key study

Ethylene glycol in vivo (Rabbit): Not irritant Experimental result, Key study

Amorphous silica in vivo (Rabbit): Not irritant Experimental result, Key study

Serious Eye Damage/Eye Irritation

**Product:** No data available.

Specified substance(s):

Aluminum oxide Rabbit, 24 hrs: Not irritating

Ethylene glycol Rabbit, 24 hrs: Not irritating

Amorphous silica Rabbit, 24 hrs: Not irritating

Zirconium dioxide Rabbit, 24 hrs: Not irritating

Respiratory or Skin Sensitization

**Product:** No data available.

Carcinogenicity

**Product:** Suspected of causing cancer.

IARC Monographs on the Evaluation of Carcinogenic Risks to Humans:

Magnesium Overall evaluation: Possibly carcinogenic to humans. Overall evaluation: Not

aluminum silicate classifiable as to carcinogenicity to humans.

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

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

**Germ Cell Mutagenicity** 

In vitro

**Product:** No data available.

In vivo

**Product:** No data available.

Reproductive toxicity



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**Product:** No data available.

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.

Specified substance(s):

Propylene glycol LC 50 (Fathead minnow (Pimephales promelas), 96 h): 29,485 - 39,339 mg/l

Mortality

Ethylene glycol LC 50 (Rainbow trout, donaldson trout (Oncorhynchus mykiss), 96 h): 36,000

- 47,000 mg/l Mortality

Chlorothalonil LC 50 (Rainbow trout, donaldson trout (Oncorhynchus mykiss), 96 h): 0.0076

mg/I Mortality

**Aquatic Invertebrates** 

**Product:** No data available.

Specified substance(s):

Propylene glycol EC 50 (Water flea (Daphnia magna), 48 h): > 10,000 mg/l Intoxication

Ethylene glycol LC 50 (Water flea (Ceriodaphnia dubia), 48 h): 11,700 - 16,600 mg/l

Mortality

Chlorothalonil EC 50 (Water flea (Daphnia magna), 48 h): 0.081 - 0.113 mg/l Intoxication

# Chronic hazards to the aquatic environment:

Fish

**Product:** No data available.

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Specified substance(s):

Propylene glycol NOAEL (Pimephales promelas, 7 d): 11,530 mg/l Experimental result, Not

specified

Ethylene glycol NOAEL (Pimephales promelas, 7 d): 15,380 mg/l Experimental result,

Weight of Evidence study

**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.

Specified substance(s):

Ethylene glycol Crayfish (Procambarus), Bioconcentration Factor (BCF): 0.42 (Flow through)

Chlorothalonil Algae, algal mat (Algae), Bioconcentration Factor (BCF): 271 (Static)

Partition Coefficient n-octanol / water (log Kow)

**Product:** No data available.

Specified substance(s):

Propylene glycol Log Kow: -0.92

Ethylene glycol Log Kow: -1.36

Mobility in soil: No data available.

Other adverse effects: Toxic to aquatic organisms.

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.

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# 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)Crystalline Silicakidney effects(Quartz)/ Silica Sandlung effects

immune system effects

Cancer

Formaldehyde Acute toxicity

Skin irritation Skin sensitization Flammability

respiratory tract irritation Respiratory sensitization

Cancer Eye irritation

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

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

Ethylene glycol 5000 lbs.
Ammonium hydroxide 1000 lbs.
Formaldehyde 100 lbs.
Ammonia 100 lbs.

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

#### **Hazard categories**

Delayed (Chronic) Health Hazard Carcinogenicity

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# SARA 302 Extremely Hazardous Substance Reportable

|                   | rtoportaio.o |                             |
|-------------------|--------------|-----------------------------|
| Chemical Identity | quantity     | Threshold Planning Quantity |

Formaldehyde 100 lbs. 500 lbs. Ammonia 100 lbs. 500 lbs.

#### **SARA 304 Emergency Release Notification**

Chemical Identity Reportable quantity

Ethylene glycol 5000 lbs.
Ammonium hydroxide 1000 lbs.
Formaldehyde 100 lbs.
Ammonia 100 lbs.

#### SARA 311/312 Hazardous Chemical

Chemical Identity Threshold Planning Quantity

Formaldehyde 500lbs Ammonia 500lbs Crystalline Silica (Quartz)/ 10000 lbs

Silica Sand

Titanium dioxide 10000 lbs
Propylene glycol 10000 lbs
Aluminum oxide 10000 lbs
Magnesium aluminum 10000 lbs
silicate

Ethylene glycol 10000 lbs
Amorphous silica 10000 lbs
Zirconium dioxide 10000 lbs
Chlorothalonil 10000 lbs

## SARA 313 (TRI Reporting)

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 lbs Ammonia lbs Ammonia lbs

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

None present or none present in regulated quantities.

#### **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.

Crystalline Silica (Quartz)/ Carcinogenic. 09 2011

Silica Sand

Titanium dioxide Carcinogenic. 09 2011 Magnesium aluminum Carcinogenic. 09 2011

silicate

Ethylene glycol Developmental toxin. 06 2015

Chlorothalonil Carcinogenic. 09 2011 Carbon Black Carcinogenic. 09 2011

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Formaldehyde Carcinogenic. 09 2011

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

# **Chemical Identity**

Crystalline Silica (Quartz)/ Silica Sand Titanium dioxide Propylene glycol

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

#### **Chemical Identity**

Crystalline Silica (Quartz)/ Silica Sand Chlorothalonil Formaldehyde Ammonia

#### US. Pennsylvania RTK - Hazardous Substances

# **Chemical Identity**

Crystalline Silica (Quartz)/ Silica Sand Titanium dioxide Propylene glycol

#### **US. Rhode Island RTK**

#### **Chemical Identity**

Propylene glycol

#### International regulations

#### **Montreal protocol**

not applicable

#### Stockholm convention

not applicable

#### **Rotterdam convention**

not applicable

# **Kyoto protocol**

not applicable

#### VOC:

Regulatory VOC (less water and

: 99 g/l

exempt solvent)

VOC Method 310 : 3.06 %



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**Inventory Status:** 

Australia AICS: 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:

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.

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.

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

exempt from the Inventory.

US TSCA Inventory:

All components in this product are listed on or

exempt from the Inventory.

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

Revision Date: 03/06/2018

Version #: 3.0

Further Information: No data available.



Revision Date: 03/06/2018

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.