

Revision Date: 07/21/2018

# SAFETY DATA SHEET

# 1. Identification

Material name: Alumanation® 301

Material: 301050

Recommended use and restriction on use

Recommended use: Coatings Restrictions on use: Not known.

Manufacturer/Importer/Supplier/Distributor Information

Tremco U.S. Roofing 3735 Green Road Beachwood OH 44122 US

**Contact person:** EH&S Department **Telephone:** 216-292-5000

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

# 2. Hazard(s) identification

# **Hazard Classification**

# **Physical Hazards**

Flammable liquids Category 3

**Health Hazards** 

Serious Eye Damage/Eye Irritation Category 2A
Germ Cell Mutagenicity Category 1B
Carcinogenicity Category 1B

## **Unknown toxicity - Health**

Acute toxicity, oral 27.99 %
Acute toxicity, dermal 44.87 %
Acute toxicity, inhalation, vapor 100 %
Acute toxicity, inhalation, dust 100 %

or mist

## **Environmental Hazards**

Acute hazards to the aquatic Category 2

environment

# **Unknown toxicity - Environment**

Acute hazards to the aquatic 83.63 %

environment

Chronic hazards to the aquatic 100 %

environment



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## **Label Elements**

## **Hazard Symbol:**



Signal Word: Danger

Hazard Statement: Flammable liquid and vapor.

Causes serious eye irritation. May cause genetic defects.

May cause cancer. Toxic to aquatic life.

Precautionary Statements

**Prevention:** Keep away from heat, hot surfaces, sparks, open flames and other ignition

sources. No smoking. Keep container tightly closed. Ground and bond

container and receiving equipment. Use explosion-proof

[electrical/ventilating/lighting/...] equipment. Use non-sparking tools. Take action to prevent static discharges. Wear protective gloves/protective clothing/eye protection/face protection. Wash thoroughly after handling. 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 IN EYES: Rinse cautiously with water for several minutes. Remove

contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower]. IF exposed or concerned: Get medical advice/attention. In case of fire: Use...

to extinguish.

**Storage:** Store in a well-ventilated place. Keep cool. 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):

Static accumulating flammable liquid can become electrostatically charged even in bonded and grounded equipment. Sparks may ignite liquid and

vapor. May cause flash fire or explosion.

# 3. Composition/information on ingredients

#### **Mixtures**



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| Chemical Identity                  | CAS number   | Content in percent (%)* |
|------------------------------------|--------------|-------------------------|
| Stoddard solvent (Mineral Spirits) | 8052-41-3    | 20 - <50%               |
| Oxidized asphalt                   | 64742-93-4   | 10 - <20%               |
| Asphalt                            | 8052-42-4    | 10 - <20%               |
| Aluminum                           | 7429-90-5    | 10 - <25%               |
| Calcium carbonate                  | 471-34-1     | 5 - <10%                |
| Trade Secret                       | Trade Secret | 1 - <5%                 |
| Cellulose                          | 9004-34-6    | 1 - <5%                 |
| Nonane                             | 111-84-2     | 1 - <5%                 |
| Amorphous silica                   | 7631-86-9    | 1 - <5%                 |
| Trimethyl benzene (mixed isomers)  | 25551-13-7   | 1 - <5%                 |
| Clay                               | 1332-58-7    | 0.1 - <1%               |
| 1,2,4-Trimethylbenzene             | 95-63-6      | 0.1 - <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: Call a POISON CENTER/doctor if you feel unwell. Rinse mouth.

**Inhalation:** Move to fresh air.

**Skin Contact:** Wash skin thoroughly with soap and water. Take off immediately all

contaminated clothing. If skin irritation occurs: Get medical advice/attention.

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

remove contact lenses. Get medical attention.

Most important symptoms/effects, acute and delayed

**Symptoms:** Respiratory tract irritation.

Indication of immediate medical attention and special treatment needed

**Treatment:** Symptoms may be delayed.

# 5. Fire-fighting measures

General Fire Hazards: Use water spray to keep fire-exposed containers cool. Water may be

ineffective in fighting the fire. Fight fire from a protected location. Move

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

Suitable (and unsuitable) extinguishing media

Suitable extinguishing

media:

Use fire-extinguishing media appropriate for surrounding materials.

Unsuitable extinguishing

media:

Avoid water in straight hose stream; will scatter and spread fire.



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Specific hazards arising from

the chemical:

Vapors may travel considerable distance to a source of ignition and flash back. Vapors may cause a flash fire or ignite explosively. Prevent buildup of

vapors or gases to explosive concentrations.

Special protective equipment and precautions for firefighters

**Special fire fighting** 

procedures:

No data available.

Special protective equipment

for fire-fighters:

Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in

enclosed spaces, SCBA.

# 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures: Ventilate closed spaces before entering them. ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Keep upwind.

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:** Do not contaminate water sources or sewer. Prevent further leakage or

spillage if safe to do so. Avoid release to the environment.

# 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. Avoid contact with eyes. Wash hands thoroughly after handling. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Ground and bond container and receiving equipment. Take precautionary measures against static discharges. Provide adequate ventilation. Wear appropriate personal protective equipment. Observe good industrial hygiene practices.

Conditions for safe storage,

including any incompatibilities:

Store locked up. Store in a well-ventilated place. Store in a cool place.

# 8. Exposure controls/personal protection

#### **Control Parameters**

**Occupational Exposure Limits** 

| ecupational Exposure Ellinis       |      |                       |                                         |  |  |  |
|------------------------------------|------|-----------------------|-----------------------------------------|--|--|--|
| Chemical Identity                  | Туре | Exposure Limit Values | Source                                  |  |  |  |
| Stoddard solvent (Mineral Spirits) | TWA  | 100 ppm               | US. ACGIH Threshold Limit Values (2011) |  |  |  |
|                                    | PEL  | 500 ppm 2,900 mg/m3   | US. OSHA Table Z-1 Limits for Air       |  |  |  |



|                                                  |     |                                                         | Contaminants (29 CFR 1910.1000) (02 2006)                                      |
|--------------------------------------------------|-----|---------------------------------------------------------|--------------------------------------------------------------------------------|
| Asphalt - Inhalable fraction as benzene solubles | TWA | 0.5 mg/m3                                               | US. ACGIH Threshold Limit Values (2011)                                        |
| Aluminum - Respirable fraction.                  | TWA | 1 mg/m3                                                 | US. ACGIH Threshold Limit Values (2011)                                        |
| Aluminum - Total dust as Al                      | PEL | 15 mg/m3                                                | US. OSHA Table Z-1 Limits for Air<br>Contaminants (29 CFR 1910.1000) (02 2006) |
| Aluminum - Respirable fraction as Al             | PEL | 5 mg/m3                                                 | US. OSHA Table Z-1 Limits for Air<br>Contaminants (29 CFR 1910.1000) (03 2016) |
| Aluminum - Respirable fraction.                  | TWA | 5 mg/m3                                                 | US. OSHA Table Z-3 (29 CFR 1910.1000) (03 2016)                                |
|                                                  | TWA | 15 millions of<br>particles per<br>cubic foot of<br>air | US. ÓSHA Table Z-3 (29 CFR 1910.1000) (03 2016)                                |
| Aluminum - 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)                                |
|                                                  | TWA | 15 mg/m3                                                | US. OSHA Table Z-3 (29 CFR 1910.1000) (03 2016)                                |
| Calcium carbonate - Total dust.                  | PEL | 15 mg/m3                                                | US. OSHA Table Z-1 Limits for Air<br>Contaminants (29 CFR 1910.1000) (02 2006) |
| Calcium carbonate -<br>Respirable fraction.      | PEL | 5 mg/m3                                                 | US. OSHA Table Z-1 Limits for Air<br>Contaminants (29 CFR 1910.1000) (02 2006) |
| Trade Secret - Respirable particles.             | TWA | 3 mg/m3                                                 | US. ACGIH Threshold Limit Values (03 2016)                                     |
| Trade Secret - Inhalable particles.              | TWA | 10 mg/m3                                                | US. ACGIH Threshold Limit Values (03 2016)                                     |
| Trade Secret - Total dust.                       | TWA | 15 mg/m3                                                | US. OSHA Table Z-3 (29 CFR 1910.1000) (03 2016)                                |
| Trade Secret - Respirable fraction.              | TWA | 15 millions of particles per cubic foot of air          | US. OSHA Table Z-3 (29 CFR 1910.1000) (03 2016)                                |
| Trade Secret - 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)                                |
| Trade Secret - Respirable fraction.              | TWA | 5 mg/m3                                                 | US. OSHA Table Z-3 (29 CFR 1910.1000) (03 2016)                                |
| Cellulose                                        | TWA | 10 mg/m3                                                | US. ACGIH Threshold Limit Values (2011)                                        |
| Cellulose - Total dust.                          | PEL | 15 mg/m3                                                | US. OSHA Table Z-1 Limits for Air<br>Contaminants (29 CFR 1910.1000) (02 2006) |
| Cellulose - Respirable fraction.                 | PEL | 5 mg/m3                                                 | US. OSHA Table Z-1 Limits for Air<br>Contaminants (29 CFR 1910.1000) (02 2006) |
| Nonane                                           | TWA | 200 ppm                                                 | US. ACGIH Threshold Limit Values (02 2012)                                     |
| Amorphous silica                                 | TWA | 20 millions of particles per cubic foot of air          | US. OSHA Table Z-3 (29 CFR 1910.1000)<br>(2000)                                |
|                                                  | TWA | 0.8 mg/m3                                               | US. OSHA Table Z-3 (29 CFR 1910.1000) (2000)                                   |
| Trimethyl benzene (mixed isomers)                | TWA | 25 ppm                                                  | US. ACGIH Threshold Limit Values (2011)                                        |
| Clay - Respirable fraction.                      | TWA | 2 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) |
| Clay - 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)                                |
| Clay - Respirable fraction.                      | TWA | 15 millions of particles per cubic foot of              | US. OSHA Table Z-3 (29 CFR 1910.1000) (03 2016)                                |



|                        |          |        | air         |                                              |
|------------------------|----------|--------|-------------|----------------------------------------------|
|                        | TWA      |        |             | LIC OCUA Table 7.2 (20 CED 4040 4000) (02    |
|                        | IVVA     |        | 5 mg/m3     | US. OSHA Table Z-3 (29 CFR 1910.1000) (03    |
|                        |          |        |             | 2016)                                        |
| Clay - Total dust.     | TWA      |        | 15 mg/m3    | US. OSHA Table Z-3 (29 CFR 1910.1000) (03    |
|                        |          |        |             | 2016)                                        |
| 1,2,4-Trimethylbenzene | REL      | 25 ppm | 125 mg/m3   | US. NIOSH: Pocket Guide to Chemical          |
|                        |          |        |             | Hazards (2010)                               |
|                        | TWA      | 25 ppm | 125 mg/m3   | US. OSHA Table Z-1-A (29 CFR 1910.1000)      |
|                        |          |        | · ·         | (1989)                                       |
|                        | TWA      | 25 ppm | 125 mg/m3   | US. Tennessee. OELs. Occupational Exposure   |
|                        |          |        | Ü           | Limits, Table Z1A (06 2008)                  |
|                        | AN ESL   |        | 25 ppb      | US. Texas. Effects Screening Levels (Texas   |
|                        | /        |        | _0 PP0      | Commission on Environmental Quality) (07     |
|                        |          |        |             | 2011)                                        |
|                        | ST ESL   |        | 140 ppb     | US. Texas. Effects Screening Levels (Texas   |
|                        | 0.202    |        |             | Commission on Environmental Quality) (02     |
|                        |          |        |             | 2013)                                        |
|                        | ST ESL   |        | 700 µg/m3   | US. Texas. Effects Screening Levels (Texas   |
|                        | 31 LOL   |        | 700 μg/1113 | Commission on Environmental Quality) (02     |
|                        |          |        |             | 2013)                                        |
|                        | AN ESL   |        | 105         | US. Texas. Effects Screening Levels (Texas   |
|                        | ANESL    |        | 125 µg/m3   |                                              |
|                        |          |        |             | Commission on Environmental Quality) (07     |
|                        | TIAVA DE | 05     | 405/- 2     | 2011)                                        |
|                        | TWA PEL  | 25 ppm | 125 mg/m3   | US. California Code of Regulations, Title 8, |
|                        |          |        |             | Section 5155. Airborne Contaminants (08      |
|                        |          |        |             | 2010)                                        |
|                        | TWA      | 25 ppm |             | US. ACGIH Threshold Limit Values (2011)      |

| Chemical name                      | Туре | Exposure Limit Values | Source                                                                                                                                                        |
|------------------------------------|------|-----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Stoddard solvent (Mineral Spirits) | STEL | 580 mg/m3             | Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007) |
|                                    | TWA  | 290 mg/m3             | Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007) |



| Stoddard solvent (Mineral Spirits)               | TWA | 100 ppm           | Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (11 2010)                                                                        |
|--------------------------------------------------|-----|-------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Stoddard solvent (Mineral Spirits)               | TWA | 100 ppm 525 mg/m3 | Canada. Quebec OELs. (Ministry of Labor -<br>Regulation Respecting the Quality of the Work<br>Environment) (09 2017)                                          |
| Asphalt - Aerosol, inhalable as benzene solubles | TWA | 0.5 mg/m3         | Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007) |
| Asphalt - Inhalable fraction as benzene solubles | TWA | 0.5 mg/m3         | Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (11 2010)                                                                        |
| Asphalt - Fume.                                  | TWA | 5 mg/m3           | Canada. Quebec OELs. (Ministry of Labor -<br>Regulation Respecting the Quality of the Work<br>Environment) (09 2017)                                          |
| Aluminum - Respirable.                           | TWA | 1 mg/m3           | Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007) |
| Aluminum - Respirable fraction.                  | TWA | 1 mg/m3           | Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (11 2010)                                                                        |
| Aluminum                                         | TWA | 10 mg/m3          | Canada. Quebec OELs. (Ministry of Labor -<br>Regulation Respecting the Quality of the Work<br>Environment) (09 2017)                                          |
| Aluminum - as Al                                 | TWA | 5 mg/m3           | Canada. Quebec OELs. (Ministry of Labor -<br>Regulation Respecting the Quality of the Work<br>Environment) (09 2017)                                          |
| Aluminum - Welding fume as Al                    | TWA | 5 mg/m3           | Canada. Quebec OELs. (Ministry of Labor -<br>Regulation Respecting the Quality of the Work<br>Environment) (09 2017)                                          |
| 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) (09 2017)                                          |
| Trade Secret - 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) (05 2013) |
| Trade Secret - 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) (05 2013) |
| Trade Secret - Inhalable fraction.               | TWA | 10 mg/m3          | Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (06 2015)                                                                        |
| Trade Secret - Respirable fraction.              | TWA | 3 mg/m3           | Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (06 2015)                                                                        |
| Trade Secret - Total dust.                       | TWA | 10 mg/m3          | Canada. Quebec OELs. (Ministry of Labor -<br>Regulation Respecting the Quality of the Work<br>Environment) (09 2017)                                          |



| 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) (09 2017)                                          |  |
| Petroleum distillates - Non-<br>aerosol as total<br>hydrocarbon vapor | TWA | 200 mg/m3 |           |                                                                                                                                                               |  |
| Petroleum distillates                                                 | TWA |           | 525 mg/m3 | Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (11 2010)                                                                        |  |
| Petroleum distillates - Non-<br>aerosol as total<br>hydrocarbon vapor | TWA |           | 200 mg/m3 | Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (11 2010)                                                                        |  |
|                                                                       | TWA |           | 200 mg/m3 | Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (11 2010)                                                                        |  |
| Mica - Respirable.                                                    | 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) |  |
| Mica - Respirable fraction.                                           | TWA |           | 3 mg/m3   | Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (11 2010)                                                                        |  |
| Mica - Respirable dust.                                               | TWA |           | 3 mg/m3   | Canada. Quebec OELs. (Ministry of Labor -<br>Regulation Respecting the Quality of the Work<br>Environment) (09 2017)                                          |  |
| 1,2,4-Trimethylbenzene                                                | TWA | 25 ppm    | 123 mg/m3 | Canada. Alberta OELs (Occupational Health & Safety Code, Schedule 1, Table 2) (07 2009)                                                                       |  |
| 1,2,4-Trimethylbenzene                                                | TWA | 25 ppm    |           | Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007) |  |
| 1,2,4-Trimethylbenzene                                                | TWA | 25 ppm    |           | Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (11 2010)                                                                        |  |
| 1,2,4-Trimethylbenzene                                                | TWA | 25 ppm    | 123 mg/m3 | Canada. Quebec OELs. (Ministry of Labor -<br>Regulation Respecting the Quality of the Work<br>Environment) (09 2017)                                          |  |

| Chemical name                      | Туре | Exposure Limit Values | Source                                                                                                                                                        |  |
|------------------------------------|------|-----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| Stoddard solvent (Mineral Spirits) | STEL | 580 mg/m3             | Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007) |  |
|                                    | TWA  | 290 mg/m3             | Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007) |  |





| Stoddard solvent (Mineral Spirits)               | TWA  | 100 ppm           | Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (11 2010)                                                                        |
|--------------------------------------------------|------|-------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Stoddard solvent (Mineral Spirits)               | TWA  | 100 ppm 525 mg/m3 | Canada. Quebec OELs. (Ministry of Labor -<br>Regulation Respecting the Quality of the Work<br>Environment) (09 2017)                                          |
| Asphalt - Aerosol, inhalable as benzene solubles | TWA  | 0.5 mg/m3         | Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007) |
| Asphalt - Inhalable fraction as benzene solubles | TWA  | 0.5 mg/m3         | Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (11 2010)                                                                        |
| Asphalt - Fume.                                  | TWA  | 5 mg/m3           | Canada. Quebec OELs. (Ministry of Labor -<br>Regulation Respecting the Quality of the Work<br>Environment) (09 2017)                                          |
| Aluminum - Respirable.                           | TWA  | 1 mg/m3           | Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007) |
| Aluminum - Respirable fraction.                  | TWA  | 1 mg/m3           | Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (11 2010)                                                                        |
| Aluminum                                         | TWA  | 10 mg/m3          | Canada. Quebec OELs. (Ministry of Labor -<br>Regulation Respecting the Quality of the Work<br>Environment) (09 2017)                                          |
| Aluminum - as Al                                 | TWA  | 5 mg/m3           | Canada. Quebec OELs. (Ministry of Labor -<br>Regulation Respecting the Quality of the Work<br>Environment) (09 2017)                                          |
| Aluminum - Welding fume as Al                    | TWA  | 5 mg/m3           | Canada. Quebec OELs. (Ministry of Labor -<br>Regulation Respecting the Quality of the Work<br>Environment) (09 2017)                                          |
| Calcium carbonate - Total dust.                  | 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) |
| Calcium carbonate -<br>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) |
| Calcium carbonate - 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) |
| Calcium carbonate - Total dust.                  | TWA  | 10 mg/m3          | Canada. Quebec OELs. (Ministry of Labor -<br>Regulation Respecting the Quality of the Work<br>Environment) (09 2017)                                          |
| Trade Secret - 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) (05 2013) |
| Trade Secret - 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) (05 2013) |
| Trade Secret - Inhalable fraction.               | TWA  | 10 mg/m3          | Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (06 2015)                                                                        |
| Trade Secret - Respirable fraction.              | TWA  | 3 mg/m3           | Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (06 2015)                                                                        |
| Trade Secret - Total dust.                       | TWA  | 10 mg/m3          | Canada. Quebec OELs. (Ministry of Labor -<br>Regulation Respecting the Quality of the Work<br>Environment) (09 2017)                                          |



| 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) (09 2017)                                          |  |
| Nonane                                 | TWA | 200 ppm |             | Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (05 2013) |  |
| Nonane                                 | TWA | 200 ppm |             | Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (06 2015)                                                                        |  |
| Nonane                                 | TWA | 200 ppm | 1,050 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) (09 2017)                                          |  |
| Trimethyl benzene (mixed isomers)      | TWA | 25 ppm  |             | Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007) |  |
| Trimethyl benzene (mixed isomers)      | TWA | 25 ppm  |             | Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (11 2010)                                                                        |  |
| Trimethyl benzene (mixed isomers)      | TWA | 25 ppm  | 123 mg/m3   | Canada. Quebec OELs. (Ministry of Labor -<br>Regulation Respecting the Quality of the Work<br>Environment) (09 2017)                                          |  |
| Clay - 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) |  |
| Clay - Respirable fraction.            | TWA |         | 2 mg/m3     | Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (11 2010)                                                                        |  |
| Clay - Respirable dust.                | TWA |         | 5 mg/m3     | Canada. Quebec OELs. (Ministry of Labor -<br>Regulation Respecting the Quality of the Work<br>Environment) (09 2017)                                          |  |
| 1,2,4-Trimethylbenzene                 | TWA | 25 ppm  | 123 mg/m3   | Canada. Alberta OELs (Occupational Health & Safety Code, Schedule 1, Table 2) (07 2009)                                                                       |  |
| 1,2,4-Trimethylbenzene                 | TWA | 25 ppm  |             | Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007) |  |
| 1,2,4-Trimethylbenzene                 | TWA | 25 ppm  |             | Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (11 2010)                                                                        |  |
| 1,2,4-Trimethylbenzene                 | TWA | 25 ppm  | 123 mg/m3   | Canada. Quebec OELs. (Ministry of Labor -<br>Regulation Respecting the Quality of the Work<br>Environment) (09 2017)                                          |  |
| Magnesite - Total dust.                | TWA |         | 10 mg/m3    | Canada. Quebec OELs. (Ministry of Labor -<br>Regulation Respecting the Quality of the Work<br>Environment) (09 2017)                                          |  |
| Xylene                                 | TWA | 100 ppm | 434 mg/m3   | Canada. Alberta OELs (Occupational Health &                                                                                                                   |  |



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|                                                                       |      |         |             | Safety Code, Schedule 1, Table 2) (07 2009)                                                                                                                   |
|-----------------------------------------------------------------------|------|---------|-------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                       | STEL | 150 ppm | 651 mg/m3   | Canada. Alberta OELs (Occupational Health & Safety Code, Schedule 1, Table 2) (07 2009)                                                                       |
| Xylene                                                                | TWA  | 100 ppm |             | Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007) |
|                                                                       | STEL | 150 ppm |             | Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007) |
| Xylene                                                                | TWA  | 100 ppm |             | Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (11 2010)                                                                        |
|                                                                       | STEL | 150 ppm |             | Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (11 2010)                                                                        |
| Xylene                                                                | STEL | 150 ppm | 651 mg/m3   | Canada. Quebec OELs. (Ministry of Labor -<br>Regulation Respecting the Quality of the Work<br>Environment) (09 2017)                                          |
|                                                                       | TWA  | 100 ppm | 434 mg/m3   | Canada. Quebec OELs. (Ministry of Labor -<br>Regulation Respecting the Quality of the Work<br>Environment) (09 2017)                                          |
| 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) (09 2017)                                          |
| Naphthalene                                                           | STEL | 15 ppm  |             | Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007) |
|                                                                       | TWA  | 10 ppm  |             | Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007) |
| Naphthalene                                                           | TWA  | 10 ppm  |             | Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (11 2010)                                                                        |
|                                                                       | STEL | 15 ppm  |             | Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (11 2010)                                                                        |
| Naphthalene                                                           | TWA  | 10 ppm  | 52 mg/m3    | Canada. Quebec OELs. (Ministry of Labor -<br>Regulation Respecting the Quality of the Work<br>Environment) (09 2017)                                          |
|                                                                       | STEL | 15 ppm  | 79 mg/m3    | Canada. Quebec OELs. (Ministry of Labor -<br>Regulation Respecting the Quality of the Work<br>Environment) (09 2017)                                          |
| Ethylbenzene                                                          | TWA  | 20 ppm  |             | Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (09 2011) |
| Ethylbenzene                                                          | TWA  | 20 ppm  |             | Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (06 2015)                                                                        |
| Ethylbenzene                                                          | STEL | 125 ppm | 543 mg/m3   | Canada. Quebec OELs. (Ministry of Labor -<br>Regulation Respecting the Quality of the Work<br>Environment) (09 2017)                                          |
|                                                                       | TWA  | 100 ppm | 434 mg/m3   | Canada. Quebec OELs. (Ministry of Labor -<br>Regulation Respecting the Quality of the Work<br>Environment) (09 2017)                                          |

# 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.



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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. Use explosion-proof ventilation equipment.

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

**Skin Protection** 

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

Other: Wear suitable protective clothing.

**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. Avoid contact with eyes. When

using do not smoke.

# 9. Physical and chemical properties

**Appearance** 

Physical state: liquid

Form: Viscous Liquid

Color: Gray

Odor: Mild petroleum/solvent **Odor threshold:** No data available. pH: No data available. Melting point/freezing point: No data available.

Initial boiling point and boiling range: 155 °C 311 °F

41 °C 105 °F(Tag closed cup) Flash Point:

**Evaporation rate:** Slower than Ether

Flammability (solid, gas): Upper/lower limit on flammability or explosive limits

Flammability limit - upper (%): 7 %(V) Flammability limit - lower (%): 0.90 %(V)

**Explosive limit - upper (%):** No data available. **Explosive limit - lower (%):** 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: 1.001

Solubility(ies)



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Solubility in water: Practically Insoluble
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.

## 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:** Heat, sparks, flames.

Incompatible Materials: Avoid contact with oxidizing agents (e.g. nitric acid, peroxides and

chromates).

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

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

**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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**Dermal** 

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

Inhalation Product:

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:** May cause cancer.

IARC Monographs on the Evaluation of Carcinogenic Risks to Humans:

Oxidized asphalt 
Overall evaluation: Probably carcinogenic to humans.

Asphalt Overall evaluation: Possibly carcinogenic to humans.

**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

**Product:** No data available.

**Specific Target Organ Toxicity - Single Exposure** 

**Product:** No data available.

**Specific Target Organ Toxicity - Repeated Exposure** 

**Product:** No data available.



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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.

**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)** 

**Product:** No data available.

Partition Coefficient n-octanol / water (log Kow)

**Product:** No data available.

Mobility in soil: No data available.

Other adverse effects: Toxic to aquatic organisms.



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# 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:

UN1999, TARS, LIQUID, 3, PG III

### CFR / DOT:

UN1999, Tars, liquid, 3, PG III

#### IMDG:

UN1999, TARS, LIQUID, 3, PG III,

### **Further Information:**

The above shipping description may not be accurate for all container sizes and all modes of transportation. Please refer to Bill of Lading.

# 15. Regulatory information

## **US Federal Regulations**

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

Chemical Identity Reportable quantity

Nonane De minimis concentration: TSCA 4% One-Time Export Notification only.

## 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

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

| <b>Chemical Identit</b> | <u>v Re</u> | portable o | <u>uantity</u> |
|-------------------------|-------------|------------|----------------|
|                         |             |            |                |

Asphalt 100 lbs.
Nonane 100 lbs.
Xylene 100 lbs.
Naphthalene 100 lbs.
Ethylbenzene 1000 lbs.



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# Superfund Amendments and Reauthorization Act of 1986 (SARA)

## **Hazard categories**

Fire Hazard

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

Flammable (gases, aerosols, liquids, or solids)

Serious eye damage or eye irritation

Germ Cell Mutagenicity

Carcinogenicity

Hazards Not Otherwise Classified (HNOC)

## **SARA 302 Extremely Hazardous Substance**

None present or none present in regulated quantities.

# **SARA 304 Emergency Release Notification**

| Chemical Identity | Reportable quantity |
|-------------------|---------------------|
| Asphalt           | 100 lbs.            |
| Nonane            | 100 lbs.            |
| Xylene            | 100 lbs.            |
| Naphthalene       | 100 lbs.            |
| Ethylbenzene      | 1000 lbs.           |

### SARA 311/312 Hazardous Chemical

| Chemical Identity         | Threshold Planning Quantity |
|---------------------------|-----------------------------|
| Stoddard solvent (Mineral | 10000 lbs                   |
| Spirits)                  |                             |
| Oxidized asphalt          | 10000 lbs                   |
| Asphalt                   | 10000 lbs                   |
| Aluminum                  | 10000 lbs                   |
| Calcium carbonate         | 10000 lbs                   |
| Trade Secret              | 10000 lbs                   |
| Cellulose                 | 10000 lbs                   |
| Nonane                    | 10000 lbs                   |
| Amorphous silica          | 10000 lbs                   |
| Trimethyl benzene (mixed  | 10000 lbs                   |
| isomers)                  |                             |
| Clay                      | 10000 lbs                   |
| 1,2,4-Trimethylbenzene    | 10000 lbs                   |

## SARA 313 (TRI Reporting)

## **Chemical Identity**

Aluminum

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

None present or none present in regulated quantities.

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

Chemical IdentityReportable quantityXyleneReportable quantity: lbs.

## **US State Regulations**

## **US. California Proposition 65**



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## **WARNING**

Cancer - www.P65Warnings.ca.gov

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

### **Chemical Identity**

Stoddard solvent (Mineral Spirits)

Oxidized asphalt

Asphalt

Aluminum

Calcium carbonate

**Trade Secret** 

Cellulose

Nonane

Amorphous silica

Trimethyl benzene (mixed isomers)

## US. Massachusetts RTK - Substance List

## **Chemical Identity**

Stoddard solvent (Mineral Spirits)

Asphalt

Aluminum

Calcium carbonate

Cellulose

Nonane

Amorphous silica

Trimethyl benzene (mixed isomers)

Crystalline Silica (Quartz)/ Silica Sand

# US. Pennsylvania RTK - Hazardous Substances

## **Chemical Identity**

Stoddard solvent (Mineral Spirits)

Oxidized asphalt

Asphalt

Aluminum

Calcium carbonate

**Trade Secret** 

Cellulose

Nonane

Amorphous silica

Trimethyl benzene (mixed isomers)

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

## **Chemical Identity**

Stoddard solvent (Mineral Spirits)

Asphalt

Aluminum

Calcium carbonate

Cellulose

Nonane

Trimethyl benzene (mixed isomers)

### International regulations



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# **Montreal protocol**

Not applicable

## Stockholm convention

Not applicable

# **Rotterdam convention**

Not applicable

# **Kyoto protocol**

Not applicable

VOC:

Regulatory VOC (less water and : 321 g/l

exempt solvent)

VOC Method 310 : 32.03 %



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**Inventory Status:** 

Australia AICS: All components in this product are 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:

All components in this product are listed on or

exempt from the Inventory.

Korea Existing Chemicals Inv. (KECI): All components in this product are 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: All components in this product are 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.

US TSCA Inventory:

All components in this product are listed on or

exempt from the Inventory.

Mexico INSQ:

One or more components in this product are

not listed on or exempt from the Inventory.

Ontario Inventory:

One or more components in this product are

not listed on or exempt from the Inventory.

Taiwan Chemical Substance Inventory:

One or more components in this product are

not listed on or exempt from the Inventory.



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

**Revision Date:** 07/21/2018

Version #: 1.1

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.