1. Product and Company Identification

Company: BASF Canada Inc.
100 Milverton Drive
Mississauga, ON L5R 4H1, CANADA

24 Hour Emergency Response Information:
CANUTEC (reverse charges): (613) 996-6666
BASF HOTLINE: (800) 454-COPE (2673)

Synonyms: Silicone Coating Low VOC

2. Hazards Identification

Emergency overview

WARNING:
COMBUSTIBLE LIQUID.
MAY CAUSE EYE, SKIN AND RESPIRATORY TRACT IRRITATION.
HARMFUL IF INHALED.
REPORTS HAVE ASSOCIATED REPEATED AND PROLONGED OCCUPATIONAL OVEREXPOSURE TO SOLVENTS WITH PERMANENT BRAIN AND NERVOUS SYSTEM DAMAGE.
This product can contain a small amount of free respirable Crystalline (quartz) Silica which has been listed as a human carcinogen by NTP (Group 1) and IARC (Reasonably Anticipated to be a Human Carcinogen) and a Suspected Human Carcinogen by ACGIH (category A2).
CONTAINS MATERIAL WHICH CAN CAUSE CENTRAL NERVOUS SYSTEM DAMAGE.
CONTAINS MATERIAL WHICH CAN CAUSE KIDNEY DAMAGE.
CONTAINS MATERIAL WHICH CAN CAUSE LIVER DAMAGE.
HARMFUL IF SWALLOWED.
Prolonged or repeated contact may result in dermatitis.
Contains a suspect carcinogen.
COMBUSTIBLE LIQUID AND VAPOR.

COMBUSTIBLE LIQUID.
Irritating to eyes, respiratory system and skin.
This product can contain a small amount of free respirable Crystalline (quartz) Silica which has been listed as a human carcinogen by NTP (Group 1) and IARC (Reasonably Anticipated to be a Human Carcinogen) and a Suspected Human Carcinogen by ACGIH (category A2).
Contains a suspect carcinogen.
COMBUSTIBLE LIQUID AND VAPOR.

State of matter: liquid
Colour: dark grey
Odour: characteristic

Potential health effects
Acute toxicity:
Virtually nontoxic after a single skin contact. Virtually nontoxic by inhalation. Virtually nontoxic after a single ingestion.

Irritation / corrosion:
Not irritating to the eyes. Not irritating to the skin. Not irritating to the respiratory system.

Assessment other acute effects:
Based on the available information there is no specific target organ toxicity to be expected after a single exposure.

Sensitization:
The chemical structure does not suggest a sensitizing effect.

Chronic toxicity:

Carcinogenicity: The chemical structure does not suggest a specific alert for such an effect.

Reproductive toxicity: The chemical structure does not suggest a specific alert for such an effect.

Teratogenicity: The chemical structure does not suggest a specific alert for such an effect.

Genotoxicity: The substance was not mutagenic in bacteria.

Signs and symptoms of overexposure:
No significant reaction of the human body to the product known.
No hazards anticipated.
Information on: 1,2,4-Trimethylbenzene
Overexposure may cause: headache, tiredness, nausea, anxiety, asthma, bronchitis, noncardiogenic pulmonary edema.
Information on: Parachlorobenzotrifluoride
Overexposure may cause: lethargy, nausea, headache, dizziness, irritation of respiratory tract, irritation of the mucous membranes.

Potential environmental effects

Aquatic toxicity:
Acutely harmful for aquatic organisms. May cause long-term adverse effects in the aquatic environment.

3. Composition / Information on Ingredients

<table>
<thead>
<tr>
<th>CAS Number</th>
<th>Content (W/W)</th>
<th>Hazardous ingredients</th>
</tr>
</thead>
<tbody>
<tr>
<td>13463-67-7</td>
<td>&gt;= 1.0 - &lt;= 5.0 %</td>
<td>Titanium dioxide</td>
</tr>
<tr>
<td>14808-60-7</td>
<td>&gt;= 10.0 - &lt;= 30.0 %</td>
<td>crystalline silica</td>
</tr>
<tr>
<td>95-63-6</td>
<td>&gt;= 1.0 - &lt;= 5.0 %</td>
<td>1,2,4-trimethylbenzene</td>
</tr>
</tbody>
</table>

4. First-Aid Measures

General advice:
Remove contaminated clothing.

If inhaled:
Remove the affected individual into fresh air and keep the person calm. Assist in breathing if necessary. Immediate medical attention required.

If on skin:
Wash affected areas thoroughly with soap and water. If irritation develops, seek medical attention.
If in eyes:
In case of contact with the eyes, rinse immediately for at least 15 minutes with plenty of water. Immediate medical attention required.

If swallowed:
Rinse mouth and then drink plenty of water. Do not induce vomiting. Never induce vomiting or give anything by mouth if the victim is unconscious or having convulsions. Immediate medical attention required.

**Note to physician**
Treatment: Treat according to symptoms (decontamination, vital functions), no known specific antidote.

### 5. Fire-Fighting Measures

- **Flash point:** 39 °C
- **Autoignition:** 932 °F
- **Flammability:** not flammable
- **Self-ignition temperature:** not self-igniting

**Suitable extinguishing media:**
- water spray
- dry powder
- carbon dioxide
- foam

**Hazards during fire-fighting:**
No particular hazards known.

**Protective equipment for fire-fighting:**
Firefighters should be equipped with self-contained breathing apparatus and turn-out gear.

**Further information:**
Cool endangered containers with water-spray. Dispose of fire debris and contaminated extinguishing water in accordance with official regulations. Water or foam may cause frothing of the substance/product.

### 6. Accidental release measures

**Personal precautions:**
Use personal protective clothing. Avoid contact with the skin, eyes and clothing.

**Environmental precautions:**
Do not empty into drains. Do not discharge into the subsoil/soil.

**Cleanup:**
Spills should be contained, solidified, and placed in suitable containers for disposal.

### 7. Handling and Storage

#### Handling

**General advice:**
Ensure thorough ventilation of stores and work areas.

#### Storage

**General advice:**
Avoid extreme heat. Store protected against freezing.

**Storage stability:**
8. Exposure Controls and Personal Protection

**Components with occupational exposure limits**

<table>
<thead>
<tr>
<th>Substance</th>
<th>OSHA</th>
<th>TWA value</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>crystalline silica</td>
<td>OSHA</td>
<td>2.4 millions of particles per cubic foot of air Respirable;</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>The value is calculated from a specified equation using a value of 100%. Lower values of % will give higher exposure limits. See regulation for specific equation.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>TWA value 0.1 mg/m³ Respirable;</td>
</tr>
<tr>
<td>1,2,4-trimethylbenzene</td>
<td>ACGIH</td>
<td>0.025 mg/m³ Respirable fraction;</td>
<td></td>
</tr>
<tr>
<td>Titanium dioxide</td>
<td>ACGIH</td>
<td>25 ppm</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>10 mg/m³</td>
<td></td>
</tr>
</tbody>
</table>

**Advice on system design:**

Provide local exhaust ventilation to control vapours/mists.

**Personal protective equipment**

**Respiratory protection:**
Wear a NIOSH-certified (or equivalent) organic vapour/particulate respirator as needed.

**Hand protection:**
Chemical resistant protective gloves

**Eye protection:**
Tightly fitting safety goggles (chemical goggles). Wear face shield if splashing hazard exists.

**General safety and hygiene measures:**
Avoid contact with skin. Handle in accordance with good industrial hygiene and safety practice. Wear protective clothing as necessary to prevent contact. Avoid inhalation of vapours/mists. Wash soiled clothing immediately.

9. Physical and Chemical Properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Form</td>
<td>liquid</td>
</tr>
<tr>
<td>Odour:</td>
<td>characteristic</td>
</tr>
<tr>
<td>Odour threshold:</td>
<td>No data available.</td>
</tr>
<tr>
<td>Colour:</td>
<td>dark grey</td>
</tr>
<tr>
<td>pH value:</td>
<td>8</td>
</tr>
<tr>
<td>Boiling range:</td>
<td>250.0 - 335.0 °C</td>
</tr>
<tr>
<td>Vapour pressure:</td>
<td>5.3 hPa</td>
</tr>
<tr>
<td>Density:</td>
<td>11.68 - 11.88 lb/USg</td>
</tr>
<tr>
<td>Vapour density:</td>
<td>not applicable</td>
</tr>
<tr>
<td>Partitioning coefficient n-octanol/water (log Pow):</td>
<td>not applicable</td>
</tr>
<tr>
<td>Viscosity, dynamic:</td>
<td>110 - 125 mPa.s</td>
</tr>
<tr>
<td>Solubility in water:</td>
<td>partly soluble</td>
</tr>
<tr>
<td>Other Information:</td>
<td>If necessary, information on other physical and chemical parameters is indicated in this section.</td>
</tr>
</tbody>
</table>
10. Stability and Reactivity

Conditions to avoid:
Avoid excessive temperatures.
Temperature: < 0 degrees Celsius

Substances to avoid:
acids, oxidizing agents, isocyanates

Hazardous reactions:
The product is chemically stable.

Decomposition products:
Hazardous decomposition products: carbon monoxide, carbon dioxide

Thermal decomposition:
No decomposition if stored and handled as prescribed/indicated.

Corrosion to metals:
No corrosive effect on metal.

11. Toxicological information

Acute toxicity

Information on: Parachlorobenzotrifluoride

Information on: Petroleum Distillates
Assessment of acute toxicity:
Overexposure may cause CNS depression including headache, dizziness, nausea and loss of consciousness. Aspiration may result in chemical pneumonitis, which may be fatal.

Information on: 1,2,4-trimethylbenzene
Assessment of acute toxicity:
Of low toxicity after single ingestion. Of moderate toxicity after short-term inhalation. EU-classification

Derma:
Type of value: LD50
Species: rabbit
Value: > 2,000 mg/kg

Irritation / corrosion

Information on: 1,2,4-trimethylbenzene
Assessment of irritating effects:
Irritating to eyes and skin.

Information on: Petroleum Distillates
Assessment of irritating effects:
Skin contact may result in irritation, defatting and dermatitis.

Skin:

Information on: 1,2,4-trimethylbenzene
Species: rabbit
Result: Irritant.
Method: OECD Guideline 404

Eye:
Information on: 1,2,4-trimethylbenzene
Species: rabbit
Result: Irritant.
Method: other

Repeated dose toxicity
Information on: Parachlorobenzotrifluoride

Information on: crystalline silica
Assessment of repeated dose toxicity:
Repeated inhalation exposure may affect certain organs. The substance may cause increase in lung mass and lung tissue changes after repeated inhalation. This product may contain greater than 0.1% crystalline silica. Repeated exposure to high concentrations results in silicosis, a lung disease characterized by coughing, difficult breathing, wheezing, scarring of the lungs, and repeated, non-specific chest illnesses.

Information on: 1,2,4-trimethylbenzene
Assessment of repeated dose toxicity:
Repeated oral uptake of the substance did not cause substance-related effects. Investigations using experimental animals show that the material can cause lung tissue changes following inhalation.

Carcinogenicity
Information on: crystalline silica
In long-term studies in rats and mice in which the substance was given by feed, a carcinogenic effect was not observed. In long-term animal studies in which the substance was given by inhalation in high doses, a carcinogenic effect was observed. The substance and its compounds in the form of respirable dusts/aerosols is classified by the German MAK commision as a category 1 carcinogen (substances that cause cancer to humans). A carcinogenic effect cannot safely be ruled out. The inhalation uptake of the alveolar fraction of the fine dust may cause damage to the lungs. The International Agency for Research on Cancer (IARC) has classified this substance as a Group 1 (known) human carcinogen.
The International Agency for Research on Cancer (IARC) has classified this substance as a Group 1 (known) human carcinogen.
NTP listed carcinogen
Information on: Titanium dioxide
IARC (International Agency for Research on Cancer) has classified this substance as group 2B (The agent is possibly carcinogenic to humans). In long-term studies in rats in which the substance was given by inhalation, a carcinogenic effect was observed. Tumors were only observed in rats after chronic inhalative exposure to high concentrations which caused sustained lung inflammation. In long-term studies in rats and mice in which the substance was given by feed, a carcinogenic effect was not observed. Dermal exposure is not expected to be carcinogenic.

Aspiration Hazard:
No aspiration hazard expected.

12. Ecological Information

Fish
Information on: 1,2,4-trimethylbenzene
Acute:
Flow through.
Pimephales promelas/LC50 (8 d): 7.4 mg/l
Literature data.

Information on: solvent naphtha
Acute:
Fish test acute semistatic
Pimephales promelas/LL50 (96 h): 8.2 mg/l
The details of the toxic effect relate to the nominal concentration.

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Aquatic invertebrates

Information on: 1,2,4-trimethylbenzene
Acute:
OECD Guideline 202, part 1 static
Daphnia magna/EC50 (48 h): approx. 6.14 mg/l
The statement of the toxic effect relates to the analytically determined concentration. The product has low solubility in the test medium. An eluate has been tested. Literature data.

Information on: solvent naphtha
Acute:
OECD Guideline 202, part 1 static
Daphnia magna/EL50 (48 h): 4.5 mg/l
The details of the toxic effect relate to the nominal concentration.

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Aquatic plants

Information on: 1,2,4-trimethylbenzene
Toxicity to aquatic plants:
static
Algae/EC50 (72 h): 1 - 2 mg/l
Literature data.

Information on: solvent naphtha
Toxicity to aquatic plants:
OECD Guideline 201 static
green algae/EL50 (72 h): 3.1 mg/l
The details of the toxic effect relate to the nominal concentration.
OECD Guideline 201 static
green algae/No observed effect concentration (72 h): 0.5 mg/l
The details of the toxic effect relate to the nominal concentration.

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Degradability / Persistence
Biological / Abiological Degradation

Evaluation: Biodegradable.
The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

Other adverse effects:

Do not allow to enter soil, waterways or waste water channels. Inhibition of degradation activity in activated sludge is not to be anticipated during correct introduction of low concentrations. The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

13. Disposal considerations

Waste disposal of substance:
Incinerate in a licensed facility. Dispose of in a licensed facility. Do not discharge substance/product into sewer system.

**Container disposal:**
Contaminated packaging should be emptied as far as possible; then it can be passed on for recycling after being thoroughly cleaned.

### 14. Transport Information

**Land transport**

TDG

| Hazard class: | 3 |
| Packing group: | III |
| ID number: | UN 1263 |
| Hazard label: | 3 |
| Proper shipping name: | PAINT |

**Sea transport**

IMDG

| Hazard class: | 3 |
| Packing group: | III |
| ID number: | UN 1263 |
| Hazard label: | 3 |
| Marine pollutant: | NO |
| Proper shipping name: | PAINT |

**Air transport**

IATA/ICAO

| Hazard class: | 3 |
| Packing group: | III |
| ID number: | UN 1263 |
| Hazard label: | 3 |
| Proper shipping name: | PAINT |

### 15. Regulatory Information

**Federal Regulations**

**Registration status:**
Chemical DSL, CA released / listed

**WHMIS classification:**
B3: Combustible Liquid

D2A: Materials Causing Other Toxic Effects - Very toxic material

D2B: Materials Causing Other Toxic Effects - Toxic material

THIS PRODUCT HAS BEEN CLASSIFIED IN ACCORDANCE WITH THE HAZARD CRITERIA OF THE CPR AND THE MSDS CONTAINS ALL THE INFORMATION REQUIRED BY THE CPR.
16. Other Information

Recommended use: polyurethane component
Suitable for use in industrial sector: Polymers industry; chemical industry

We support worldwide Responsible Care® initiatives. We value the health and safety of our employees, customers, suppliers and neighbors, and the protection of the environment. Our commitment to Responsible Care is integral to conducting our business and operating our facilities in a safe and environmentally responsible fashion, supporting our customers and suppliers in ensuring the safe and environmentally sound handling of our products, and minimizing the impact of our operations on society and the environment during production, storage, transport, use and disposal of our products.

MSDS Prepared by:
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msds@basf.com
BASF HOTLINE (800) 454 – COPE (2673)
MSDS Prepared on: 2013/01/07

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