

# SAFETY DATA SHEET

Classified in accordance 29 CFR 1910.1200

## 1. Identification

**Product identifier:** BLACK MAGIC DRY LUBRICANT

**Other means of identification**

**SDS number:** RE1000017105

**Recommended restrictions**

**Recommended use:** Lubricant

**Restrictions on use:** This chemical/product is not and cannot be distributed in commerce (as defined in TSCA section 3(5)) or processed (as defined in TSCA section 3(13)) for consumer paint or coating removal.

**Manufacturer/Importer/Distributor Information**

**Manufacturer**

Company Name: Brodi Specialty Products  
Address: 3175 14th Avenue  
Markham, ON L3R 0H1  
CA  
Telephone: 877-744-0751

**Emergency telephone number:** 1-866-836-8855

## 2. Hazard(s) identification

**Hazard Classification**

**Physical Hazards**

Flammable aerosol Category 1

**Health Hazards**

Carcinogenicity Category 1B

Toxic to reproduction Category 2

Specific Target Organ Toxicity -  
Repeated Exposure Category 2

**Environmental Hazards**

Acute hazards to the aquatic  
environment Category 3

**Label Elements**

**Hazard Symbol:**



**Signal Word:** Danger

**Hazard Statement:** Extremely flammable aerosol.  
May cause cancer.  
Suspected of damaging fertility or the unborn child.  
May cause damage to organs through prolonged or repeated exposure.  
Harmful to aquatic life.

## Precautionary Statements

- Prevention:** Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not spray on an open flame or other ignition source. Pressurized container: Do not pierce or burn, even after use. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Use personal protective equipment as required. Do not breathe dust/fume/gas/mist/vapors/spray. Avoid release to the environment.
- Response:** IF exposed or concerned: Get medical advice/attention.
- Storage:** Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F. 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 (%)* |
|--|------------|-------------------------|
| Methylene Chloride                     | 75-09-2    | 50 - <100%              |
| Butane                                 | 106-97-8   | 10 - <20%               |
| Benzene, methyl-                       | 108-88-3   | 5 - <10%                |
| Propane                                | 74-98-6    | 5 - <10%                |
| Isopropyl Alcohol                      | 67-63-0    | 1 - <5%                 |
| Molybdenum sulfide (MoS <sub>2</sub> ) | 1317-33-5  | 1 - <5%                 |

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

The exact concentration has been withheld as a trade secret.

## 4. First-aid measures

### Description of necessary first-aid measures

- Inhalation:** Move to fresh air.
- Skin Contact:** Wash skin thoroughly with soap and water. If skin irritation occurs: Get medical advice/attention.
- Eye contact:** Any material that contacts the eye should be washed out immediately with water. If easy to do, remove contact lenses. If eye irritation persists: Get medical advice/attention.
- Ingestion:** Call a POISON CENTER/doctor if you feel unwell. Rinse mouth.
- Personal Protection for First-aid Responders:** Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.

### Most important symptoms/effects, acute and delayed

**Symptoms:** No data available.

**Hazards:** No data available.

## 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. 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. 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. Do not use water jet as an extinguisher, as this will spread the fire.

**Specific hazards arising from the chemical:** Vapors may travel considerable distance to a source of ignition and flash back.

#### 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.

**Accidental release measures:** Prevent entry into waterways, sewer, basements or confined areas. Stop the flow of material, if this is without risk. ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Stop leak if you can do so without risk. Dike for later disposal. Prevent entry into waterways, sewer, basements or confined areas. Stop the flow of material, if this is without risk. ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Stop leak if you can do so without risk.

**Methods and material for containment and cleaning up:** Absorb spill with vermiculite or other inert material, then place in a container for chemical waste. Absorb spill with vermiculite or other inert material, then place in a container for chemical waste. Dike far ahead of larger spill for later recovery and disposal.

**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

#### Handling

**Technical measures (e.g. Local and general ventilation):** No data available.

**Safe handling advice:** Wash hands thoroughly after handling. Do not handle until all safety precautions have been read and understood. Obtain special instructions before use. Use personal protective equipment as required. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not spray on an open flame or other ignition source.  
Pressurized container: Do not pierce or burn, even after use.

**Contact avoidance measures:** No data available.

**Storage**

**Safe storage conditions:** Store locked up. Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C. Do not pierce or burn, even after use. Aerosol Level 1

**Safe packaging materials:** No data available.

**Storage Temperature:** No data available.

**8. Exposure controls/personal protection**

**Control Parameters  
Occupational Exposure Limits**

| Chemical Identity  | Type      | Exposure Limit Values | Source   |
|--------------------|-----------|-----------------------|--|
| Methylene Chloride | TWA       | 50 ppm                | US. ACGIH Threshold Limit Values, as amended                                   |
|                    | TWA       | 25 ppm                | US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053), as amended |
|                    | OSHA _ACT | 12.5 ppm              | US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053), as amended |
| Butane             | STEL      | 125 ppm               | US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053), as amended |
|                    | REL       | 800 ppm 1,900 mg/m3   | US. NIOSH: Pocket Guide to Chemical Hazards, as amended                        |
|                    | STEL      | 1,000 ppm             | US. ACGIH Threshold Limit Values, as amended                                   |
| Benzene, methyl-   | TWA       | 800 ppm 1,900 mg/m3   | US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended                            |
|                    | STEL      | 150 ppm 560 mg/m3     | US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended                            |
|                    | REL       | 100 ppm 375 mg/m3     | US. NIOSH: Pocket Guide to Chemical Hazards, as amended                        |
|                    | TWA       | 100 ppm 375 mg/m3     | US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended                            |
|                    | Ceiling   | 300 ppm               | US. OSHA Table Z-2 (29 CFR 1910.1000), as amended                              |
|                    | TWA       | 20 ppm                | US. ACGIH Threshold Limit Values, as amended                                   |
|                    | TWA       | 200 ppm               | US. OSHA Table Z-2 (29 CFR 1910.1000), as amended                              |
|                    | MAX. CONC | 500 ppm               | US. OSHA Table Z-2 (29 CFR 1910.1000), as amended                              |
|                    | STEL      | 150 ppm 560 mg/m3     | US. NIOSH: Pocket Guide to Chemical Hazards, as amended                        |
| Propane            | REL       | 1,000 ppm 1,800 mg/m3 | US. NIOSH: Pocket Guide to Chemical Hazards, as amended                        |
|                    | PEL       | 1,000 ppm 1,800 mg/m3 | US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000), as amended  |
|                    | TWA       | 1,000 ppm 1,800 mg/m3 | US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended                            |
| Isopropyl Alcohol  | STEL      | 500 ppm 1,225 mg/m3   | US. NIOSH: Pocket Guide to Chemical Hazards, as amended                        |
|                    | TWA       | 200 ppm               | US. ACGIH Threshold Limit Values, as amended                                   |
|                    | REL       | 400 ppm 980 mg/m3     | US. NIOSH: Pocket Guide to Chemical Hazards, as amended                        |
|                    | PEL       | 400 ppm 980 mg/m3     | US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000), as amended  |
|                    | TWA       | 400 ppm 980 mg/m3     | US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended                            |
|                    | STEL      | 400 ppm               | US. ACGIH Threshold Limit Values, as amended                                   |
|                    | STEL      | 500 ppm 1,225 mg/m3   | US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended                            |

|   |           |         |                       |  |
|---|-----------|---------|-----------------------|--|
| Molybdenum sulfide (MoS <sub>2</sub> ) - Inhalable fraction. - as Mo  | TWA       |         | 10 mg/m <sup>3</sup>  | US. ACGIH Threshold Limit Values, as amended                                   |
| Molybdenum sulfide (MoS <sub>2</sub> ) - Respirable fraction. - as Mo | TWA       |         | 3 mg/m <sup>3</sup>   | US. ACGIH Threshold Limit Values, as amended                                   |
| Molybdenum sulfide (MoS <sub>2</sub> ) - Total dust. - as Mo          | TWA       |         | 10 mg/m <sup>3</sup>  | US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended                            |
|   | PEL       |         | 15 mg/m <sup>3</sup>  | US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000), as amended  |
| Methanol  | STEL      | 250 ppm | 325 mg/m <sup>3</sup> | US. NIOSH: Pocket Guide to Chemical Hazards, as amended                        |
|   | TWA       | 200 ppm |                       | US. ACGIH Threshold Limit Values, as amended                                   |
|   | STEL      | 250 ppm |                       | US. ACGIH Threshold Limit Values, as amended                                   |
|   | STEL      | 250 ppm | 325 mg/m <sup>3</sup> | US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended                            |
|   | REL       | 200 ppm | 260 mg/m <sup>3</sup> | US. NIOSH: Pocket Guide to Chemical Hazards, as amended                        |
|   | PEL       | 200 ppm | 260 mg/m <sup>3</sup> | US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000), as amended  |
|   | TWA       | 200 ppm | 260 mg/m <sup>3</sup> | US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended                            |
| 1,2-Ethanediol  | Ceiling   | 50 ppm  | 125 mg/m <sup>3</sup> | US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended                            |
| 1,2-Ethanediol - Vapor fraction                                       | TWA       | 25 ppm  |                       | US. ACGIH Threshold Limit Values, as amended                                   |
|   | STEL      | 50 ppm  |                       | US. ACGIH Threshold Limit Values, as amended                                   |
| 1,2-Ethanediol - Aerosol, inhalable.                                  | STEL      |         | 10 mg/m <sup>3</sup>  | US. ACGIH Threshold Limit Values, as amended                                   |
| Benzene, 1,2,4-trimethyl-   | TWA       | 25 ppm  |                       | US. ACGIH Threshold Limit Values, as amended                                   |
|   | TWA       | 25 ppm  | 125 mg/m <sup>3</sup> | US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended                            |
|   | REL       | 25 ppm  | 125 mg/m <sup>3</sup> | US. NIOSH: Pocket Guide to Chemical Hazards, as amended                        |
| Proprietary   | TWA       | 20 ppm  |                       | US. ACGIH Threshold Limit Values, as amended                                   |
| Benzene   | REL       | 0.1 ppm |                       | US. NIOSH: Pocket Guide to Chemical Hazards, as amended                        |
|   | TWA       | 1 ppm   |                       | US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended                            |
|   | Ceiling   | 25 ppm  |                       | US. OSHA Table Z-2 (29 CFR 1910.1000), as amended                              |
|   | TWA       | 0.5 ppm |                       | US. ACGIH Threshold Limit Values, as amended                                   |
|   | STEL      | 2.5 ppm |                       | US. ACGIH Threshold Limit Values, as amended                                   |
|   | STEL      | 5 ppm   |                       | US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053), as amended |
|   | OSHA_ACT  | 0.5 ppm |                       | US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053), as amended |
|   | TWA       | 10 ppm  |                       | US. OSHA Table Z-2 (29 CFR 1910.1000), as amended                              |
|   | MAX. CONC | 50 ppm  |                       | US. OSHA Table Z-2 (29 CFR 1910.1000), as amended                              |
|   | STEL      | 5 ppm   |                       | US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended                            |
|   | TWA       | 1 ppm   |                       | US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053), as amended |
|   | STEL      | 1 ppm   |                       | US. NIOSH: Pocket Guide to Chemical Hazards, as amended                        |

### Biological Limit Values

| Chemical Identity   | Exposure Limit Values          | Source    |
|---|--------------------------------|-----------|
| Methylene Chloride (dichloromethane: Sampling time: End of shift.)            | 0.3 mg/l (Urine)               | ACGIH BEL |
| Benzene, methyl- (toluene: Sampling time: End of shift.)                      | 0.03 mg/l (Urine)              | ACGIH BEL |
| Benzene, methyl- (o-Cresol, with hydrolysis: Sampling time: End of shift.)    | 0.3 mg/g (Creatinine in urine) | ACGIH BEL |
| Benzene, methyl- (toluene: Sampling time: Prior to last shift of work week.)  | 0.02 mg/l (Blood)              | ACGIH BEL |
| Isopropyl Alcohol (acetone: Sampling time: End of shift at end of work week.) | 40 mg/l (Urine)                | ACGIH BEL |
| Methanol (methanol: Sampling time: End of shift.)                             | 15 mg/l (Urine)                | ACGIH BEL |
| Benzene (S-Phenylmercapturic acid: Sampling time: End of shift.)              | 25 µg/g (Creatinine in urine)  | ACGIH BEL |
| Benzene (t,t-Muconic acid: Sampling time: End of shift.)                      | 500 µg/g (Creatinine in urine) | ACGIH BEL |

### Exposure guidelines

|          |  |                                   |
|----------|--|-----------------------------------|
| Methanol | US. ACGIH Threshold Limit Values, as amended | Can be absorbed through the skin. |
| Benzene  | US. ACGIH Threshold Limit Values, as amended | Can be absorbed through the skin. |

Appropriate Engineering Controls

No data available.

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

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

#### Skin Protection

**Hand Protection:** No data available.

**Skin and Body Protection:** 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. When using do not smoke. Do not handle until all safety precautions have been read and understood. Obtain special instructions before use.

## 9. Physical and chemical properties

### Appearance

|   |  |
|---|--|
| <b>Physical state:</b>                          | liquid   |
| <b>Form:</b>                                    | Spray Aerosol  |
| <b>Color:</b>                                   | No data available.                                     |
| <b>Odor:</b>                                    | No data available.                                     |
| <b>Odor Threshold:</b>                          | No data available.                                     |
| <b>pH:</b>                                      | No data available.                                     |
| <b>Freezing point:</b>                          | No data available.                                     |
| <b>Boiling Point:</b>                           | No data available.                                     |
| <b>Flash Point:</b>                             | Estimated -104 °C                                      |
| <b>Evaporation Rate:</b>                        | No data available.                                     |
| <b>Flammability (solid, gas):</b>               | No data available.                                     |
| <b>Explosive limit - upper (%):</b>             | Estimated 9.5 %(V)                                     |
| <b>Explosive limit - lower (%):</b>             | estimated 1.9 %(V)                                     |
| <b>Vapor pressure:</b>                          | 2,068 - 3,447 hPa (20 °C)<br>4,481 - 5,860 hPa (54 °C) |
| <b>Vapor density (air=1):</b>                   | No data available.                                     |
| <b>Density:</b>                                 | No data available.                                     |
| <b>Relative density:</b>                        | No data available.                                     |
| <b>Solubility in Water:</b>                     | No data available.                                     |
| <b>Solubility (other):</b>                      | No data available.                                     |
| <b>Partition coefficient (n-octanol/water):</b> | No data available.                                     |
| <b>Self Ignition Temperature:</b>               | No data available.                                     |
| <b>Decomposition Temperature:</b>               | No data available.                                     |
| <b>Kinematic viscosity:</b>                     | No data available.                                     |
| <b>Dynamic viscosity:</b>                       | No data available.                                     |
| <b>Explosive properties:</b>                    | No data available.                                     |
| <b>Oxidizing properties:</b>                    | 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.

|  |                              |
|--|------------------------------|
| <b>Conditions to avoid:</b>              | Avoid heat or contamination. |
| <b>Incompatible Materials:</b>           | No data available.           |
| <b>Hazardous Decomposition Products:</b> | No data available.           |

## 11. Toxicological information

### Information on likely routes of exposure

|                      |                    |
|----------------------|--------------------|
| <b>Inhalation:</b>   | No data available. |
| <b>Skin Contact:</b> | No data available. |
| <b>Eye contact:</b>  | No data available. |
| <b>Ingestion:</b>    | No data available. |

### Symptoms related to the physical, chemical and toxicological characteristics

|                      |                    |
|----------------------|--------------------|
| <b>Inhalation:</b>   | No data available. |
| <b>Skin Contact:</b> | No data available. |
| <b>Eye contact:</b>  | No data available. |
| <b>Ingestion:</b>    | No data available. |

### Information on toxicological effects

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

|                   |  |
|-------------------|--|
| <b>Oral</b>       |  |
| <b>Product:</b>   | ATEmix: 2,738.03 mg/kg                                     |
| <b>Dermal</b>     |  |
| <b>Product:</b>   | ATEmix: 2,731.13 mg/kg                                     |
| <b>Inhalation</b> |  |
| <b>Product:</b>   | Not classified for acute toxicity based on available data. |

#### Repeated dose toxicity

**Product:** No data available.

#### Components:

|                    |   |
|--------------------|---|
| Methylene Chloride | NOAEL (Rat(Female, Male), Oral, 104 Weeks): 6 mg/kg Oral Experimental result, Key study<br>NOAEL (Rat(Female, Male), Inhalation): 200 ppm(m) Inhalation Experimental result, Key study  |
| Butane             | LOAEL (Rat(Female, Male), Inhalation, >= 28 d): 12,000 ppm(m) Inhalation Experimental result, Key study<br>NOAEL (Rat(Female, Male), Inhalation, >= 28 d): 4,000 ppm(m) Inhalation Experimental result, Key study   |
| Benzene, methyl-   | LOAEL (Rat(Female, Male), Oral, 13 Weeks): 1,250 mg/kg (Target Organ(s): Liver, Kidney) Oral Experimental result, Key study<br>NOAEL (Rat(Female, Male), Inhalation): 625 ppm(m) Inhalation Experimental result, Key study<br>NOAEL (Rat(Female, Male), Inhalation - vapor): 2,355 mg/l Inhalation Experimental result, Key study |

|                   |   |
|-------------------|---|
| Propane           | NOAEL (Rat(Female, Male), Inhalation, >= 28 d): 4,000 ppm(m) Inhalation<br>Experimental result, Key study<br>LOAEL (Rat(Female, Male), Inhalation, >= 28 d): 12,000 ppm(m) Inhalation<br>Experimental result, Key study |
| Isopropyl Alcohol | NOAEL (Rat, Inhalation, >= 104 Weeks): 5,000 ppm(m) Inhalation<br>Experimental result, Key study  |

#### **Skin Corrosion/Irritation**

**Product:** No data available.

##### **Components:**

|                                       |   |
|---------------------------------------|---|
| Methylene Chloride                    | An Expert Judgment stated that no classification is necessary based on present knowledge. |
| Benzene, methyl-<br>Isopropyl Alcohol | in vivo (Rabbit): Irritating<br>in vivo (Rabbit): Not Classified                          |

#### **Serious Eye Damage/Eye Irritation**

**Product:** No data available.

##### **Components:**

|                   |   |
|-------------------|---|
| Benzene, methyl-  | Rabbit, 24 - 72 hrs: Not irritating                                   |
| Isopropyl Alcohol | Rabbit, 1 d: Category 2: Causes serious eye irritation<br>Irritating. |

#### **Respiratory or Skin Sensitization**

**Product:** No data available.

##### **Components:**

|                                       |  |
|---------------------------------------|--|
| Benzene, methyl-<br>Isopropyl Alcohol | Skin sensitization:, in vivo (Guinea pig): Non sensitising<br>Skin sensitization:, in vivo (Guinea pig): Non sensitising |
|---------------------------------------|--|

#### **Carcinogenicity**

**Product:** No data available.

##### **Components:**

|                    |   |
|--------------------|---|
| Methylene Chloride | Suspect cancer hazard - may cause cancer. |
|--------------------|---|

#### **IARC Monographs on the Evaluation of Carcinogenic Risks to Humans:**

Methylene Chloride Overall evaluation: 2A. Probably carcinogenic to humans.

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

Methylene Chloride Overall evaluation: 2A. Probably carcinogenic to humans.

#### **US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050), as amended:**

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.

##### **Components:**

|                  |  |
|------------------|--|
| Benzene, methyl- | Suspected of damaging fertility or the unborn child. |
|------------------|--|

#### **Specific Target Organ Toxicity - Single Exposure**

**Product:** No data available.

**Components:**

Benzene, methyl-  
Isopropyl Alcohol                      Inhalation - vapor: Narcotic effect. - Category 3 with narcotic effects.  
Narcotic effect. - Category 3 with narcotic effects.

**Specific Target Organ Toxicity - Repeated Exposure**

**Product:** No data available.

**Components:**

Benzene, methyl-                      Category 2

**Aspiration Hazard**

**Product:** No data available.

**Components:**

Benzene, methyl-                      May be fatal if swallowed and enters airways.

**Other effects:** No data available.

**12. Ecological information**

**Ecotoxicity:**

**Acute hazards to the aquatic environment:**

**Fish**

**Product:** No data available.

**Components:**

Methylene Chloride                      LC 50 (Pimephales promelas, 96 h): 193 mg/l Experimental result, Key study

Butane    LC 50 (Various, 96 h): 147.54 mg/l QSAR QSAR, Key study

Benzene, methyl-                      LC 50 (Oncorhynchus kisutch, 96 h): 5.5 mg/l Experimental result, Key study

Propane    LC 50 (Various, 96 h): 147.54 mg/l QSAR QSAR, Key study

Isopropyl Alcohol                      LC 50 (Pimephales promelas, 96 h): 9,640 mg/l Experimental result, Key study

**Aquatic Invertebrates**

**Product:** No data available.

**Components:**

Methylene Chloride                      LC 50 (Daphnia magna, 48 h): 27 mg/l Experimental result, Key study

Butane    LC 50 (Daphnia sp., 48 h): 69.43 mg/l QSAR QSAR, Key study

Benzene, methyl-                      LC 50 (Water flea (Daphnia magna), 48 h): 54.6 - 174.7 mg/l Mortality  
LC 50 (Ceriodaphnia dubia, 2 d): 3.78 mg/l Experimental result, Key study

Isopropyl Alcohol                      LC 50 (Daphnia magna, 24 h): > 10,000 mg/l Experimental result, Key study

**Chronic hazards to the aquatic environment:**

**Fish**

**Product:** No data available.

**Components:**

Methylene Chloride                      LC 50 (Pimephales promelas): 471 mg/l Experimental result, Key study  
NOAEL (Pimephales promelas): 83 mg/l Experimental result, Key study

Benzene, methyl-                      NOAEL (Oncorhynchus kisutch): 1.39 mg/l Experimental result, Key study  
LOAEL (Oncorhynchus kisutch): 2.77 mg/l Experimental result, Key study

### Aquatic Invertebrates

**Product:** No data available.

#### Components:

Benzene, methyl- LOAEL (Ceriodaphnia dubia): 2.76 mg/l Experimental result, Key study  
NOAEL (Ceriodaphnia dubia): 0.74 mg/l Experimental result, Key study

### Toxicity to Aquatic Plants

**Product:** No data available.

### Persistence and Degradability

#### Biodegradation

**Product:** No data available.

#### Components:

Methylene Chloride > 75 % Soil Experimental result, Key study  
68 % (28 d) Detected in water. Experimental result, Key study

Butane 100 % (385.5 h) Detected in water. Experimental result, Key study

Benzene, methyl- 100 % (14 d) Detected in water. Experimental result, Weight of Evidence study  
86 % Detected in water. Experimental result, Weight of Evidence study

Propane 100 % (385.5 h) Detected in water. Experimental result, Key study  
50 % (3.19 d) Detected in water. QSAR, Weight of Evidence study

Isopropyl Alcohol 53 % (5 d) Detected in water. Experimental result, Key study

#### BOD/COD Ratio

**Product:** No data available.

### Bioaccumulative potential

#### Bioconcentration Factor (BCF)

**Product:** No data available.

#### Components:

Methylene Chloride Bioconcentration Factor (BCF): > 0.91 - < 7.9 Aquatic sediment Estimated by calculation, Supporting study

Benzene, methyl- Leuciscus idus, Bioconcentration Factor (BCF): 90 Aquatic sediment  
Experimental result, Key study

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

**Product:** No data available.

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

#### Components:

Methylene Chloride No data available.

Butane No data available.

Benzene, methyl- No data available.

Propane No data available.

Isopropyl Alcohol No data available.

Molybdenum sulfide (MoS<sub>2</sub>) No data available.

**Other adverse effects:** Harmful to aquatic organisms.

## 13. Disposal considerations

**Disposal instructions:** Discharge, treatment, or disposal may be subject to national, state, or local laws.

**Contaminated Packaging:** No data available.

## 14. Transport information

### DOT

UN Number: UN 1950  
UN Proper Shipping Name: Aerosols, Flammable, toxic  
Transport Hazard Class(es)  
Class: 2.1  
Subsidiary Risk 6.1  
Label(s): –  
Packing Group: III  
Environmental Hazards: No  
  
Special precautions for user: Not regulated.

### IMDG

UN Number: UN 1950  
UN Proper Shipping Name: Aerosols  
Transport Hazard Class(es)  
Class: 2.1  
Subsidiary Risk 6.1  
Label(s): –  
EmS No.: F-D, S-U  
Packing Group: III  
Environmental Hazards: No  
  
Special precautions for user: Not regulated.

### IATA

UN Number: UN 1950  
Proper Shipping Name: Aerosols, Flammable, containing substances in Division 6.1,  
Packing Group III  
Transport Hazard Class(es):  
Class: 2.1  
Label(s): 2.1, 6.1  
Packing Group: –  
Environmental Hazards: No  
  
Special precautions for user: Not regulated.

The classification shown in this section may be eligible for use of an exception, such as "Limited Quantity", per the dangerous goods regulations. The shipper of this product should consult the applicable mode's regulation for the UN number displayed above to determine if any exceptions are available and may be utilized, at the shipper's discretion.

## 15. Regulatory information

### US Federal Regulations

**Restrictions on use:** This chemical/product is not and cannot be distributed in commerce (as defined in TSCA section 3(5)) or processed (as defined in TSCA section 3(13)) for consumer paint or coating removal.

**TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)  
US. Toxic Substances Control Act (TSCA) Section 5(a)(2) Final Significant New Use Rules (SNURs) (40 CFR 721, Subpt E)  
US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050), as amended**

| <u>Chemical Identity</u> | <u>OSHA hazard(s)</u>  |
|--------------------------|--|
| Benzene                  | Flammability<br>Cancer<br>Aspiration<br>Eye<br>Blood<br>Skin<br>respiratory tract irritation<br>Central nervous system |

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

| <u>Chemical Identity</u>  |
|---|
| METHANE, DICHLORO-<br>UNLISTED HAZARDOUS WASTES CHARACTERISTIC OF IGNITABILITY<br>RCRA HAZARDOUS WASTE NO. D001<br>BENZENE, METHYL-<br>METHANOL<br>METHYL ALCOHOL<br>ETHYLENE GLYCOL<br>BENZENE |

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

**Hazard categories**

Flammable (gases, aerosols, liquids, or solids), Carcinogenicity, Reproductive toxicity, Specific target organ toxicity (single or repeated exposure)

**US. EPCRA (SARA Title III) Section 304 Extremely Hazardous Substances Reporting Quantities and the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) Hazardous Substances**

None present or none present in regulated quantities.

**US. EPA Emergency Planning and Community Right-To-Know Act (EPCRA) SARA Title III Section 313 Toxic Chemicals (40 CFR 372.65) - Supplier Notification Required**

| <u>Chemical Identity</u> | <u>% by weight</u> |
|--------------------------|--------------------|
| Methylene Chloride       | 0.1%               |
| Benzene, methyl-         | 1.0%               |
| Isopropyl Alcohol        | 1.0%               |

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

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

**US State Regulations**

**US. California Proposition 65**



**WARNING:** This product can expose you to chemicals including, Benzene which is [are] known to the State of California to cause cancer and birth defects or other reproductive harm.

This product can expose you to chemicals including, Methylene Chloride which is [are] known to the State of California to cause cancer. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

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

**Chemical Identity**

Methylene Chloride

Butane

Benzene, methyl-

Propane

Isopropyl Alcohol

**US. Massachusetts RTK - Substance List**

**Chemical Identity**

Methylene Chloride

**US. Pennsylvania RTK - Hazardous Substances**

**Chemical Identity**

Methylene Chloride

Butane

Benzene, methyl-

Propane

Isopropyl Alcohol

**US. Rhode Island RTK**

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

**International regulations**

**Montreal protocol**

Not applicable

**Stockholm convention**

Not applicable

**Rotterdam convention**

Not applicable

**Kyoto protocol**

Not applicable

**Inventory Status:**

|   |  |
|---|--|
| Australia AICS                          | Not in compliance with the inventory.  |
| Canada DSL Inventory List               | Not in compliance with the inventory.  |
| Canada NDSL Inventory                   | Not in compliance with the inventory.  |
| Ontario Inventory                       | Not in compliance with the inventory.  |
| China Inv. Existing Chemical Substances | Not in compliance with the inventory.  |
| Japan (ENCS) List                       | Not in compliance with the inventory.  |
| Japan ISHL Listing                      | Not in compliance with the inventory.  |
| Japan Pharmacopoeia Listing             | Not in compliance with the inventory.  |
| Korea Existing Chemicals Inv. (KECI)    | Not in compliance with the inventory.  |
| Mexico INSQ                             | Not in compliance with the inventory.  |
| New Zealand Inventory of Chemicals      | Not in compliance with the inventory.  |
| Philippines PICCS                       | Not in compliance with the inventory.  |
| Taiwan Chemical Substance Inventory     | Not in compliance with the inventory.  |
| US TSCA Inventory                       | On or in compliance with the inventory |
| EINECS, ELINCS or NLP                   | Not in compliance with the inventory.  |

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

**Issue Date:** 07/30/2021

**Revision Information:** No data available.

**Version #:** 1.1

**Further Information:** No data available.

**Disclaimer:** This information is provided without warranty. The information is believed to be correct. This information should be used to make an independent determination of the methods to safeguard workers and the environment.