

**1. Identification**

**Product number** HIL0105055  
**Product identifier** **Gel Graffiti Remover**  
**Company information** HILLYARD INC  
 302 North 4th Street  
 St. Joseph, MO 64501 United States  
**Company phone** 816-383-8285  
**Emergency telephone US** 1-800-424-9300  
**Version #** 01  
**Supersedes date** 12-21-2014  
**Recommended use** Not available.  
**Recommended restrictions** None known.

**2. Hazard(s) identification**

|                              |   |                             |
|------------------------------|---|-----------------------------|
| <b>Physical hazards</b>      | Flammable aerosols                                | Category 1                  |
|                              | Gases under pressure                              | Liquefied gas               |
| <b>Health hazards</b>        | Acute toxicity, inhalation                        | Category 4                  |
|                              | Skin corrosion/irritation                         | Category 2                  |
|                              | Serious eye damage/eye irritation                 | Category 2                  |
|                              | Sensitization, skin                               | Category 1                  |
|                              | Reproductive toxicity (the unborn child)          | Category 2                  |
|                              | Specific target organ toxicity, single exposure   | Category 3 narcotic effects |
|                              | Specific target organ toxicity, repeated exposure | Category 2                  |
|                              | Aspiration hazard                                 | Category 1                  |
| <b>Environmental hazards</b> | Not classified.                                   |                             |
| <b>OSHA defined hazards</b>  | Not classified.                                   |                             |

**Label elements**



**Signal word** Danger

**Hazard statement** Extremely flammable aerosol. Contains gas under pressure; may explode if heated. May be fatal if swallowed and enters airways. Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation. May cause drowsiness or dizziness. Suspected of damaging the unborn child. May cause damage to organs through prolonged or repeated exposure.

**Precautionary statement**

**Prevention** Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Do not spray on an open flame or other ignition source. Pressurized container: Do not pierce or burn, even after use. Do not breathe gas. Use only outdoors or in a well-ventilated area. Contaminated work clothing must not be allowed out of the workplace. Wear protective gloves/protective clothing/eye protection/face protection.

**Response** If swallowed: Immediately call a poison center/doctor. If on skin: Wash with plenty of water. If inhaled: Remove person to fresh air and keep comfortable for breathing. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If exposed or concerned: Get medical advice/attention. Call a poison center/doctor if you feel unwell. Do NOT induce vomiting. If skin irritation or rash occurs: Get medical advice/attention. If eye irritation persists: Get medical advice/attention. Take off contaminated clothing and wash before reuse.

|  |   |
|--|---|
| <b>Storage</b>                                   | Store in a well-ventilated place. Keep container tightly closed. Store locked up. Protect from sunlight. Store in a well-ventilated place. Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F. |
| <b>Disposal</b>                                  | Not available.  |
| <b>Hazard(s) not otherwise classified (HNOC)</b> | None known.   |
| <b>Supplemental information</b>                  | None.   |

### 3. Composition/information on ingredients

#### Mixtures

| Chemical name                            | Common name and synonyms | CAS number | %        |
|--|--------------------------|------------|----------|
| Toluene                                  |                          | 108-88-3   | 20 - 40  |
| 2-Butoxyethanol                          |                          | 111-76-2   | 2.5 - 10 |
| Acetone                                  |                          | 67-64-1    | 2.5 - 10 |
| Butane                                   |                          | 106-97-8   | 2.5 - 10 |
| Diethylene Glycol Monobutyl Ether        |                          | 112-34-5   | 2.5 - 10 |
| Propane                                  |                          | 74-98-6    | 2.5 - 10 |
| 9-Octadecenoic Acid                      |                          | 112-80-1   | 1 - 2.5  |
| Sodium Hydroxide                         |                          | 1310-73-2  | 0.1 - 1  |
| Other components below reportable levels |                          |            | 20 - 40  |

\*Designates that a specific chemical identity and/or percentage of composition has been withheld as a trade secret.

### 4. First-aid measures

|   |  |
|---|--|
| <b>Inhalation</b>   | Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.  |
| <b>Skin contact</b>   | In case of eczema or other skin disorders: Seek medical attention and take along these instructions.   |
| <b>Eye contact</b>  | Rinse with water. Get medical attention if irritation develops and persists.   |
| <b>Ingestion</b>  | Rinse mouth. Get medical attention if symptoms occur.  |
| <b>Most important symptoms/effects, acute and delayed</b>                     | Dermatitis. May cause drowsiness and dizziness. Headache. Nausea, vomiting. Irritation of nose and throat. Aspiration may cause pulmonary edema and pneumonitis. Rash. Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Skin irritation. May cause redness and pain. May cause an allergic skin reaction. Prolonged exposure may cause chronic effects. |
| <b>Indication of immediate medical attention and special treatment needed</b> | Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed.   |
| <b>General information</b>  | IF exposed or concerned: Get medical advice/attention. If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance. Wash contaminated clothing before reuse.   |

### 5. Fire-fighting measures

|  |   |
|--|---|
| <b>Suitable extinguishing media</b>                                  | Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).   |
| <b>Unsuitable extinguishing media</b>                                | None known.   |
| <b>Specific hazards arising from the chemical</b>                    | Contents under pressure. Pressurized container may explode when exposed to heat or flame.   |
| <b>Special protective equipment and precautions for firefighters</b> | Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.  |
| <b>Fire-fighting equipment/instructions</b>                          | In case of fire: Stop leak if safe to do so. Do not move cargo or vehicle if cargo has been exposed to heat. Move containers from fire area if you can do so without risk. Containers should be cooled with water to prevent vapor pressure build up. For massive fire in cargo area, use unmanned hose holder or monitor nozzles, if possible. If not, withdraw and let fire burn out. |
| <b>Specific methods</b>  | Use standard firefighting procedures and consider the hazards of other involved materials. Move containers from fire area if you can do so without risk. Cool containers exposed to flames with water until well after the fire is out. In the event of fire and/or explosion do not breathe fumes.   |

General fire hazards Extremely flammable aerosol.

## 6. Accidental release measures

### Personal precautions, protective equipment and emergency procedures

Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Keep out of low areas. Wear appropriate protective equipment and clothing during clean-up. Do not breathe gas. Emergency personnel need self-contained breathing equipment. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

### Methods and materials for containment and cleaning up

Refer to attached safety data sheets and/or instructions for use. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Keep combustibles (wood, paper, oil, etc.) away from spilled material. Stop leak if you can do so without risk. Move the cylinder to a safe and open area if the leak is irreparable. Isolate area until gas has dispersed. Prevent entry into waterways, sewer, basements or confined areas. Following product recovery, flush area with water. For waste disposal, see section 13 of the SDS.

### Environmental precautions

Avoid discharge into drains, water courses or onto the ground.

## 7. Handling and storage

### Precautions for safe handling

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Pressurized container: Do not pierce or burn, even after use. Do not use if spray button is missing or defective. Do not spray on a naked flame or any other incandescent material. Do not smoke while using or until sprayed surface is thoroughly dry. Do not cut, weld, solder, drill, grind, or expose containers to heat, flame, sparks, or other sources of ignition. All equipment used when handling the product must be grounded. Do not re-use empty containers. Do not breathe gas. Do not get in eyes, on skin, or on clothing. Avoid prolonged exposure. Use only in well-ventilated areas. Should be handled in closed systems, if possible. Pregnant or breastfeeding women must not handle this product. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Observe good industrial hygiene practices.

### Conditions for safe storage, including any incompatibilities

Level 2 Aerosol.

Store locked up. Pressurized container. Protect from sunlight and do not expose to temperatures exceeding 50°C/122 °F. Do not puncture, incinerate or crush. Do not handle or store near an open flame, heat or other sources of ignition. This material can accumulate static charge which may cause spark and become an ignition source. Keep containers tightly closed in a dry, cool and well-ventilated place. Store away from incompatible materials (see Section 10 of the SDS).

## 8. Exposure controls/personal protection

### Occupational exposure limits

#### US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

| Components                       | Type | Value                  |
|----------------------------------|------|------------------------|
| 2-Butoxyethanol (CAS 111-76-2)   | PEL  | 240 mg/m3              |
| Acetone (CAS 67-64-1)            | PEL  | 50 ppm<br>2400 mg/m3   |
| Propane (CAS 74-98-6)            | PEL  | 1000 ppm<br>1800 mg/m3 |
| Sodium Hydroxide (CAS 1310-73-2) | PEL  | 1000 ppm<br>2 mg/m3    |

#### US. OSHA Table Z-2 (29 CFR 1910.1000)

| Components             | Type    | Value   |
|------------------------|---------|---------|
| Toluene (CAS 108-88-3) | Ceiling | 300 ppm |
|                        | TWA     | 200 ppm |

#### US. ACGIH Threshold Limit Values

| Components                     | Type | Value    | Form |
|--------------------------------|------|----------|------|
| 2-Butoxyethanol (CAS 111-76-2) | TWA  | 20 ppm   |      |
| Acetone (CAS 67-64-1)          | STEL | 750 ppm  |      |
|                                | TWA  | 500 ppm  |      |
| Butane (CAS 106-97-8)          | STEL | 1000 ppm |      |

**US. ACGIH Threshold Limit Values**

| Components                                       | Type    | Value               | Form                          |
|--|---------|---------------------|-------------------------------|
| Diethylene Glycol Monobutyl Ether (CAS 112-34-5) | TWA     | 10 ppm              | Inhalable fraction and vapor. |
| Sodium Hydroxide (CAS 1310-73-2)                 | Ceiling | 2 mg/m <sup>3</sup> |                               |
| Toluene (CAS 108-88-3)                           | TWA     | 20 ppm              |                               |

**US. NIOSH: Pocket Guide to Chemical Hazards**

| Components                       | Type    | Value                                     |
|----------------------------------|---------|---|
| 2-Butoxyethanol (CAS 111-76-2)   | TWA     | 24 mg/m <sup>3</sup>                      |
| Acetone (CAS 67-64-1)            | TWA     | 5 ppm<br>590 mg/m <sup>3</sup><br>250 ppm |
| Butane (CAS 106-97-8)            | TWA     | 1900 mg/m <sup>3</sup><br>800 ppm         |
| Propane (CAS 74-98-6)            | TWA     | 1800 mg/m <sup>3</sup><br>1000 ppm        |
| Sodium Hydroxide (CAS 1310-73-2) | Ceiling | 2 mg/m <sup>3</sup>                       |
| Toluene (CAS 108-88-3)           | STEL    | 560 mg/m <sup>3</sup><br>150 ppm          |
|                                  | TWA     | 375 mg/m <sup>3</sup><br>100 ppm          |

**Biological limit values****ACGIH Biological Exposure Indices**

| Components                     | Value     | Determinant                              | Specimen            | Sampling Time |
|--------------------------------|-----------|--|---------------------|---------------|
| 2-Butoxyethanol (CAS 111-76-2) | 200 mg/g  | Butoxyacetic acid (BAA), with hydrolysis | Creatinine in urine | *             |
| Acetone (CAS 67-64-1)          | 50 mg/l   | Acetone                                  | Urine               | *             |
| Toluene (CAS 108-88-3)         | 0.3 mg/g  | o-Cresol, with hydrolysis                | Creatinine in urine | *             |
|                                | 0.03 mg/l | Toluene                                  | Urine               | *             |
|                                | 0.02 mg/l | Toluene                                  | Blood               | *             |

\* - For sampling details, please see the source document.

**Exposure guidelines****US - California OELs: Skin designation**

2-Butoxyethanol (CAS 111-76-2) Can be absorbed through the skin.  
Toluene (CAS 108-88-3) Can be absorbed through the skin.

**US - Minnesota Haz Subs: Skin designation applies**

2-Butoxyethanol (CAS 111-76-2) Skin designation applies.  
Toluene (CAS 108-88-3) Skin designation applies.

**US - Tennessee OELs: Skin designation**

2-Butoxyethanol (CAS 111-76-2) Can be absorbed through the skin.

**US NIOSH Pocket Guide to Chemical Hazards: Skin designation**

2-Butoxyethanol (CAS 111-76-2) Can be absorbed through the skin.

**US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)**

2-Butoxyethanol (CAS 111-76-2) Can be absorbed through the skin.

**Appropriate engineering controls**

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. Eye wash facilities and emergency shower must be available when handling this product.

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

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

**Hand protection** Wear appropriate chemical resistant gloves.

**Skin protection****Other**

Wear appropriate chemical resistant clothing. Use of an impervious apron is recommended.

**Skin protection****Respiratory protection**

If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn.

**Thermal hazards**

Wear appropriate thermal protective clothing, when necessary.

**General hygiene considerations**

When using, do not eat, drink or smoke. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Contaminated work clothing should not be allowed out of the workplace.

## 9. Physical and chemical properties

**Appearance****Physical state**

Liquid.

**Form**

Aerosol. Liquefied gas.

**Color**

Tan.

**Odor**

Solvent.

**Odor threshold**

Not available.

**pH**

12.5 - 13.4 estimated

**Melting point/freezing point**

Not available.

**Initial boiling point and boiling range**

193.64 °F (89.8 °C) estimated

**Flash point**

-156.0 °F (-104.4 °C) Propellant estimated

**Evaporation rate**

Not available.

**Flammability (solid, gas)**

Not available.

**Upper/lower flammability or explosive limits****Flammability limit - lower (%)**

1.9 % estimated

**Flammability limit - upper (%)**

9.5 % estimated

**Explosive limit - lower (%)**

Not available.

**Explosive limit - upper (%)**

Not available.

**Vapor pressure**

60 - 75 psig @70F estimated

**Vapor density**

Not available.

**Relative density**

Not available.

**Solubility(ies)****Solubility (water)**

Not available.

**Partition coefficient (n-octanol/water)**

Not available.

**Auto-ignition temperature**

Not available.

**Decomposition temperature**

Not available.

**Viscosity**

Not available.

**Other information****Specific gravity**

0.74 estimated

## 10. Stability and reactivity

**Reactivity**

Reacts violently with strong acids. This product may react with oxidizing agents.

**Chemical stability**

Material is stable under normal conditions.

**Possibility of hazardous reactions**

Hazardous polymerization does not occur.

**Conditions to avoid**

Keep away from heat, sparks and open flame. Do not mix with other chemicals. Contact with incompatible materials.

**Incompatible materials**

Acids. Strong oxidizing agents. Oxidizing agents. Nitrates. Fluorine. Chlorine.

**Hazardous decomposition products**

No hazardous decomposition products are known.

**11. Toxicological information****Information on likely routes of exposure**

**Ingestion** Droplets of the product aspirated into the lungs through ingestion or vomiting may cause a serious chemical pneumonia.

**Inhalation** May cause damage to organs through prolonged or repeated exposure by inhalation. May cause drowsiness and dizziness. Headache. Nausea, vomiting. Prolonged inhalation may be harmful.

**Skin contact** Causes skin irritation. May cause an allergic skin reaction.

2-Butoxy ethanol may be absorbed through the skin in toxic amounts if contact is repeated and prolonged. These effects have not been observed in humans.

**Eye contact** Causes serious eye irritation.

**Symptoms related to the physical, chemical and toxicological characteristics** Dermatitis. May cause drowsiness and dizziness. Headache. Nausea, vomiting. Irritation of nose and throat. Aspiration may cause pulmonary edema and pneumonitis. Rash. Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Skin irritation. May cause redness and pain. May cause an allergic skin reaction.

**Information on toxicological effects**

**Acute toxicity** May be fatal if swallowed and enters airways. Narcotic effects. May cause an allergic skin reaction.

| <b>Components</b>              | <b>Species</b> | <b>Test Results</b>   |
|--------------------------------|----------------|---|
| 2-Butoxyethanol (CAS 111-76-2) |                |   |
| <b>Acute</b>                   |                |   |
| <i>Dermal</i>                  |                |   |
| LD50                           | Guinea pig     | 230 ml/kg, 24 Hours<br>7.3 ml/kg, 4 Days                    |
|                                | Rabbit         | 450 ml/kg, 24 Hours<br>435 mg/kg, 24 Hours<br>0.63 ml/kg    |
|                                | Rat            | > 2000 mg/kg, 24 Hours                                      |
| <i>Inhalation</i>              |                |   |
| LC50                           | Rabbit         | 400 ppm, 7 Hours  |
|                                | Rat            | 450 ppm, 4 Hours  |
| <i>Oral</i>                    |                |   |
| LD100                          | Rabbit         | 695 mg/kg   |
| LD50                           | Dog            | > 695 mg/kg   |
|                                | Guinea pig     | 1200 mg/kg  |
|                                | Rat            | 530 - 2800 mg/kg  |
| Acetone (CAS 67-64-1)          |                |   |
| <b>Acute</b>                   |                |   |
| <i>Dermal</i>                  |                |   |
| LD50                           | Guinea pig     | > 7426 mg/kg, 24 Hours<br>> 9.4 ml/kg, 24 Hours             |
|                                | Rabbit         | > 7426 mg/kg, 24 Hours<br>> 9.4 ml/kg, 24 Hours<br>20 mg/kg |
| <i>Inhalation</i>              |                |   |
| LC50                           | Rat            | 55700 ppm, 3 Hours<br>132 mg/l, 3 Hours<br>50.1 mg/l        |

| Components                                       | Species    | Test Results              |
|--|------------|---------------------------|
| <i>Oral</i>                                      |            |                           |
| LD50   | Mouse      | 3000 mg/kg                |
|  | Rabbit     | 5340 mg/kg                |
|  | Rat        | 5800 mg/kg                |
|  |            | 2.2 ml/kg                 |
| <i>Other</i>                                     |            |                           |
| LD50   | Mouse      | 1297 mg/kg                |
|  | Rat        | 5500 mg/kg                |
| Butane (CAS 106-97-8)                            |            |                           |
| <b>Acute</b>                                     |            |                           |
| <i>Inhalation</i>                                |            |                           |
| LC50   | Mouse      | 1237 mg/l, 120 Minutes    |
|  |            | 52 %, 120 Minutes         |
|  | Rat        | 1355 mg/l                 |
| Diethylene Glycol Monobutyl Ether (CAS 112-34-5) |            |                           |
| <b>Acute</b>                                     |            |                           |
| <i>Dermal</i>                                    |            |                           |
| LD50   | Guinea pig | 2 ml/kg, 2 Days           |
|  | Rabbit     | 2764 mg/kg, 24 Hours      |
| <i>Oral</i>                                      |            |                           |
| LD100  | Rabbit     | 4000 mg/kg                |
| LD50   | Guinea pig | 2000 mg/kg                |
|  | Mouse      | 2410 mg/kg                |
|  | Rabbit     | 2500 - 3000 mg/kg         |
|  | Rat        | 3306 mg/kg                |
| Propane (CAS 74-98-6)                            |            |                           |
| <b>Acute</b>                                     |            |                           |
| <i>Inhalation</i>                                |            |                           |
| LC50   | Mouse      | 1237 mg/l, 120 Minutes    |
|  |            | 52 %, 120 Minutes         |
|  | Rat        | 1355 mg/l                 |
|  |            | 658 mg/l/4h               |
| Sodium Hydroxide (CAS 1310-73-2)                 |            |                           |
| <b>Acute</b>                                     |            |                           |
| <i>Dermal</i>                                    |            |                           |
| LD50   | Rat        | 1350 mg/kg                |
| Toluene (CAS 108-88-3)                           |            |                           |
| <b>Acute</b>                                     |            |                           |
| <i>Dermal</i>                                    |            |                           |
| LD50   | Rabbit     | > 5000 mg/kg, 24 Hours    |
| <i>Inhalation</i>                                |            |                           |
| LC50   | Mouse      | 6405 - 7436 ppm, 6 Hours  |
|  |            | 5320 ppm, 8 Hours         |
|  | Rat        | 5879 - 6281 ppm, 6 Hours  |
|  |            | 12.5 - 28.8 mg/l, 4 Hours |
| <i>Oral</i>                                      |            |                           |
| LD50   | Rat        | 5000 mg/kg                |

\* Estimates for product may be based on additional component data not shown.

|   |   |
|---|---|
| <b>Skin corrosion/irritation</b>                                      | Causes skin irritation.   |
| <b>Serious eye damage/eye irritation</b>                              | Causes serious eye irritation.  |
| <b>Respiratory or skin sensitization</b>                              |   |
| <b>Respiratory sensitization</b>                                      | Not available.  |
| <b>Skin sensitization</b>   | May cause an allergic skin reaction.  |
| <b>Germ cell mutagenicity</b>   | No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.  |
| <b>Carcinogenicity</b>  | This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.   |
| <b>IARC Monographs. Overall Evaluation of Carcinogenicity</b>         |   |
| 2-Butoxyethanol (CAS 111-76-2)  | 3 Not classifiable as to carcinogenicity to humans.   |
| Toluene (CAS 108-88-3)  | 3 Not classifiable as to carcinogenicity to humans.   |
| <b>OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)</b> |   |
| Not listed.   |   |
| <b>Reproductive toxicity</b>  | Suspected of damaging the unborn child.   |
| <b>Specific target organ toxicity - single exposure</b>               | May cause drowsiness and dizziness.   |
| <b>Specific target organ toxicity - repeated exposure</b>             | May cause damage to organs through prolonged or repeated exposure.  |
| <b>Aspiration hazard</b>  | May be fatal if swallowed and enters airways.   |
| <b>Chronic effects</b>  | Prolonged inhalation may be harmful. May be harmful if absorbed through skin.<br><br>2-Butoxy ethanol may be absorbed through the skin in toxic amounts if contact is repeated and prolonged. These effects have not been observed in humans.<br><br>May cause damage to organs through prolonged or repeated exposure. |

## 12. Ecological information

**Ecotoxicity** Harmful to aquatic life.

| Components                                       |      | Species   | Test Results                 |
|--|------|---|------------------------------|
| 2-Butoxyethanol (CAS 111-76-2)                   |      |   |                              |
| <b>Aquatic</b>                                   |      |   |                              |
| Fish   | LC50 | Inland silverside ( <i>Menidia beryllina</i> )                | 1250 mg/l, 96 hours          |
| 9-Octadecenoic Acid (CAS 112-80-1)               |      |   |                              |
| <b>Aquatic</b>                                   |      |   |                              |
| Fish   | LC50 | Fathead minnow ( <i>Pimephales promelas</i> )                 | 205 mg/l, 96 hours           |
| Acetone (CAS 67-64-1)                            |      |   |                              |
| <b>Aquatic</b>                                   |      |   |                              |
| Crustacea  | EC50 | Water flea ( <i>Daphnia magna</i> )                           | 21.6 - 23.9 mg/l, 48 hours   |
| Fish   | LC50 | Rainbow trout, donaldson trout ( <i>Oncorhynchus mykiss</i> ) | 4740 - 6330 mg/l, 96 hours   |
| Diethylene Glycol Monobutyl Ether (CAS 112-34-5) |      |   |                              |
| <b>Aquatic</b>                                   |      |   |                              |
| Fish   | LC50 | Bluegill ( <i>Lepomis macrochirus</i> )                       | 1300 mg/l, 96 hours          |
| Sodium Hydroxide (CAS 1310-73-2)                 |      |   |                              |
| <b>Aquatic</b>                                   |      |   |                              |
| Crustacea  | EC50 | Water flea ( <i>Ceriodaphnia dubia</i> )                      | 34.59 - 47.13 mg/l, 48 hours |
| Fish   | LC50 | Fish  | 45, 96 Hours                 |
| Toluene (CAS 108-88-3)                           |      |   |                              |
| <b>Aquatic</b>                                   |      |   |                              |
| Algae  | IC50 | Algae   | 433.0001 mg/L, 72 Hours      |
| Crustacea  | EC50 | Daphnia   | 7.645 mg/L, 48 Hours         |
|  |      | Water flea ( <i>Daphnia magna</i> )                           | 5.46 - 9.83 mg/l, 48 hours   |



| Components | Species  | Test Results        |
|------------|--|---------------------|
| Fish       | LC50<br>Coho salmon, silver salmon<br>(Oncorhynchus kisutch) | 8.11 mg/l, 96 hours |

\* Estimates for product may be based on additional component data not shown.

**Persistence and degradability** No data is available on the degradability of this product.

**Bioaccumulative potential** No data available.

**Partition coefficient n-octanol / water (log Kow)**

|                                   |       |
|-----------------------------------|-------|
| 2-Butoxyethanol                   | 0.83  |
| Acetone                           | -0.24 |
| Butane                            | 2.89  |
| Diethylene Glycol Monobutyl Ether | 0.56  |
| Propane                           | 2.36  |
| Toluene                           | 2.73  |

**Mobility in soil** No data available.

**Other adverse effects** No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

### 13. Disposal considerations

**Disposal instructions** Consult authorities before disposal. Contents under pressure. Do not puncture, incinerate or crush. Dispose of contents/container in accordance with local/regional/national/international regulations.

**Local disposal regulations** Dispose in accordance with all applicable regulations.

**Hazardous waste code** The waste code should be assigned in discussion between the user, the producer and the waste disposal company.

**US RCRA Hazardous Waste U List: Reference**

|                        |      |
|------------------------|------|
| Acetone (CAS 67-64-1)  | U002 |
| Toluene (CAS 108-88-3) | U220 |

**Waste from residues / unused products** Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).

**Contaminated packaging** Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may retain product residue, follow label warnings even after container is emptied. Do not re-use empty containers.

### 14. Transport information

**DOT**

|                                     |   |
|-------------------------------------|---|
| <b>UN number</b>                    | UN1950  |
| <b>UN proper shipping name</b>      | Aerosols, flammable, (each not exceeding 1 L capacity)  |
| <b>Transport hazard class(es)</b>   |   |
| <b>Class</b>                        | 2.1   |
| <b>Subsidiary risk</b>              | -   |
| <b>Label(s)</b>                     | 2.1   |
| <b>Packing group</b>                | Not applicable.   |
| <b>Special precautions for user</b> | Read safety instructions, SDS and emergency procedures before handling. Read safety instructions, SDS and emergency procedures before handling. |
| <b>Special provisions</b>           | N82   |
| <b>Packaging exceptions</b>         | 306   |
| <b>Packaging non bulk</b>           | None  |
| <b>Packaging bulk</b>               | None  |

This product meets the exception requirements of section 173.306 as a limited quantity and may be shipped as a limited quantity. Until 12/31/2020, the "Consumer Commodity - ORM-D" marking may still be used in place of the new limited quantity diamond mark for packages of UN 1950 Aerosols. Limited quantities require the limited quantity diamond mark on cartons after 12/31/20 and may be used now in place of the "Consumer Commodity ORM-D" marking and both may be displayed concurrently.

**IATA**

|                                   |                     |
|-----------------------------------|---------------------|
| <b>UN number</b>                  | UN1950              |
| <b>UN proper shipping name</b>    | Aerosols, flammable |
| <b>Transport hazard class(es)</b> |                     |
| <b>Class</b>                      | 2.1                 |
| <b>Subsidiary risk</b>            | -                   |
| <b>Label(s)</b>                   | 2.1                 |

**Packing group** Not applicable.  
**Environmental hazards** Yes  
**ERG Code** 10L  
**Special precautions for user** Read safety instructions, SDS and emergency procedures before handling. Read safety instructions, SDS and emergency procedures before handling.

**Other information**

**Passenger and cargo aircraft** Allowed.

**Cargo aircraft only** Allowed.

**Packaging Exceptions** LTD QTY

**IMDG**

**UN number** UN1950

**UN proper shipping name** AEROSOLS

**Transport hazard class(es)**

**Class** 2.1

**Subsidiary risk** -

**Label(s)** 2.1

**Packing group** Not applicable.

**Environmental hazards**

**Marine pollutant** Yes

**EmS** F-D, S-U

**Special precautions for user** Read safety instructions, SDS and emergency procedures before handling. Read safety instructions, SDS and emergency procedures before handling.

**Packaging Exceptions** LTD QTY

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code** Not applicable.

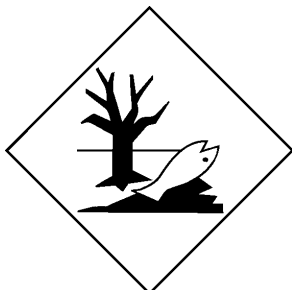
**DOT**



**IATA; IMDG**



**Marine pollutant**



General information IMDG Regulated Marine Pollutant.

## 15. Regulatory information

**US federal regulations** This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.  
All components are on the U.S. EPA TSCA Inventory List.

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

Not regulated.

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

|                                  |         |
|----------------------------------|---------|
| Acetone (CAS 67-64-1)            | Listed. |
| Sodium Hydroxide (CAS 1310-73-2) | Listed. |
| Toluene (CAS 108-88-3)           | Listed. |

### SARA 304 Emergency release notification

Not regulated.

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

Not listed.

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

**Hazard categories** Immediate Hazard - Yes  
Delayed Hazard - Yes  
Fire Hazard - Yes  
Pressure Hazard - Yes  
Reactivity Hazard - No

### SARA 302 Extremely hazardous substance

Not listed.

**SARA 311/312 Hazardous chemical** No

### SARA 313 (TRI reporting)

| Chemical name | CAS number | % by wt. |
|---------------|------------|----------|
| Toluene       | 108-88-3   | 20 - 40  |

### Other federal regulations

#### Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Toluene (CAS 108-88-3)

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

Butane (CAS 106-97-8)  
Propane (CAS 74-98-6)

**Safe Drinking Water Act (SDWA)** Not regulated.

#### Drug Enforcement Administration (DEA). List 2, Essential Chemicals (21 CFR 1310.02(b) and 1310.04(f)(2) and Chemical Code Number

|                        |      |
|------------------------|------|
| Acetone (CAS 67-64-1)  | 6532 |
| Toluene (CAS 108-88-3) | 6594 |

#### Drug Enforcement Administration (DEA). List 1 & 2 Exempt Chemical Mixtures (21 CFR 1310.12(c))

|                        |        |
|------------------------|--------|
| Acetone (CAS 67-64-1)  | 35 %WV |
| Toluene (CAS 108-88-3) | 35 %WV |

#### DEA Exempt Chemical Mixtures Code Number

|                        |      |
|------------------------|------|
| Acetone (CAS 67-64-1)  | 6532 |
| Toluene (CAS 108-88-3) | 594  |

### US state regulations

#### US. Massachusetts RTK - Substance List

2-Butoxyethanol (CAS 111-76-2)  
Acetone (CAS 67-64-1)  
Butane (CAS 106-97-8)  
Propane (CAS 74-98-6)  
Sodium Hydroxide (CAS 1310-73-2)  
Toluene (CAS 108-88-3)

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

2-Butoxyethanol (CAS 111-76-2)  
Acetone (CAS 67-64-1)  
Butane (CAS 106-97-8)

Propane (CAS 74-98-6)  
Sodium Hydroxide (CAS 1310-73-2)  
Toluene (CAS 108-88-3)

#### US. Pennsylvania Worker and Community Right-to-Know Law

2-Butoxyethanol (CAS 111-76-2)  
9-Octadecenoic Acid (CAS 112-80-1)  
Acetone (CAS 67-64-1)  
Butane (CAS 106-97-8)  
Propane (CAS 74-98-6)  
Sodium Hydroxide (CAS 1310-73-2)  
Toluene (CAS 108-88-3)

#### US. Rhode Island RTK

Acetone (CAS 67-64-1)  
Butane (CAS 106-97-8)  
Propane (CAS 74-98-6)  
Sodium Hydroxide (CAS 1310-73-2)  
Toluene (CAS 108-88-3)

#### US. California Proposition 65

WARNING: This product contains a chemical known to the State of California to cause birth defects or other reproductive harm.

##### US - California Proposition 65 - CRT: Listed date/Developmental toxin

Toluene (CAS 108-88-3) Listed: January 1, 1991

##### US - California Proposition 65 - CRT: Listed date/Female reproductive toxin

Toluene (CAS 108-88-3) Listed: August 7, 2009

#### International Inventories

| Country(s) or region        | Inventory name   | On inventory (yes/no)* |
|-----------------------------|--|------------------------|
| Australia                   | Australian Inventory of Chemical Substances (AICS)                     | Yes                    |
| Canada                      | Domestic Substances List (DSL)   | Yes                    |
| Canada                      | Non-Domestic Substances List (NDSL)                                    | No                     |
| China                       | Inventory of Existing Chemical Substances in China (IECSC)             | Yes                    |
| Europe                      | European Inventory of Existing Commercial Chemical Substances (EINECS) | Yes                    |
| Europe                      | European List of Notified Chemical Substances (ELINCS)                 | No                     |
| Japan                       | Inventory of Existing and New Chemical Substances (ENCS)               | No                     |
| Korea                       | Existing Chemicals List (ECL)  | No                     |
| New Zealand                 | New Zealand Inventory  | Yes                    |
| Philippines                 | Philippine Inventory of Chemicals and Chemical Substances (PICCS)      | No                     |
| United States & Puerto Rico | Toxic Substances Control Act (TSCA) Inventory                          | Yes                    |

\*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

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

Issue date 07-04-2015

Version # 01

**Disclaimer** The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

**Revision Information** Product and Company Identification: Alternate Trade Names  
Stability and reactivity: Conditions to avoid