1. Identification of the Substance/Preparation and of the Company/Undertaking

Product Identifier
Product name SPRAYPAK VANDAL MARK REMOVER
Chemical name 7-7785-3

Other means of identification
Product code FG 433-4105-8
Synonyms Graffiti Remover

Recommended use of the chemical and restrictions on use
Recommended Use Vandal mark remover.
Uses advised against Do not use to clean glass or wood surfaces. DO NOT USE ON FLOORS

Details of the supplier of the safety data sheet
Supplier Address Chase Products Co.
2727 Gardner Road
Broadview, IL  60155
708-273-1121

Emergency Telephone Number
Company Phone Number 708-865-1000
24 Hour Emergency Phone Number 1-800-255-3924
Emergency telephone ChemTel 1-800-255-3924

2. Hazards Identification

Classification

<table>
<thead>
<tr>
<th>Hazard</th>
<th>Category</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acute toxicity - Inhalation (Gases)</td>
<td>Category 3</td>
</tr>
<tr>
<td>Acute toxicity - Inhalation (Vapors)</td>
<td>Category 4</td>
</tr>
<tr>
<td>Acute toxicity - Inhalation (Dusts/Mists)</td>
<td>Category 4</td>
</tr>
<tr>
<td>Skin corrosion/irritation</td>
<td>Category 2</td>
</tr>
<tr>
<td>Serious eye damage/eye irritation</td>
<td>Category 2</td>
</tr>
<tr>
<td>Skin sensitization</td>
<td>Category 1</td>
</tr>
<tr>
<td>Germ Cell Mutagenicity</td>
<td>Category 1B</td>
</tr>
<tr>
<td>Carcinogenicity</td>
<td>Category 1B</td>
</tr>
<tr>
<td>Reproductive Toxicity</td>
<td>Category 2</td>
</tr>
<tr>
<td>Specific target organ toxicity (single exposure)</td>
<td>Category 3</td>
</tr>
<tr>
<td>Specific target organ toxicity (repeated exposure)</td>
<td>Category 2</td>
</tr>
<tr>
<td>Aspiration toxicity</td>
<td>Category 1</td>
</tr>
<tr>
<td>FLAMMABLE AEROSOLS</td>
<td>Category 1</td>
</tr>
<tr>
<td>Gases Under Pressure</td>
<td>liquefied gas</td>
</tr>
</tbody>
</table>

Label Elements

EMERGENCY OVERVIEW

DANGER

hazard statements
Toxic if inhaled
CAUSES SKIN IRRITATION
Causes serious eye irritation
May cause an allergic skin reaction
May cause genetic defects
Precautionary Statements - Prevention
Obtain special instructions before use
Do not handle until all safety precautions have been read and understood
Do not eat, drink or smoke when using this product
Use personal protective equipment as required
Wear protective gloves, protective clothing, eye protection and face protection.
Use only outdoors or in a well-ventilated area
Wash face, hands and any exposed skin thoroughly after handling
Contaminated work clothing should not be allowed out of the workplace
Do not breathe fumes, mist, vapors or spray.
Keep away from heat, sparks, open flames and hot surfaces. — No smoking
Pressurized container: Do not pierce or burn, even after use
Do not spray on an open flame or other ignition source

Precautionary Statements - Response
IF exposed or concerned: Get medical advice/attention
Specific treatment: See additional cautionary statements on this label.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
If eye irritation persists: Get medical advice/attention
IF ON SKIN: Wash with plenty of soap and water
Take off contaminated clothing and wash before reuse
If skin irritation or rash occurs: Get medical advice/attention
IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
Call a POISON CENTER or doctor/physician
IF SWALLOWED: Immediately call a POISON CENTER or doctor.
Do NOT induce vomiting

Precautionary Statements - Storage
Store locked up
Store in a well-ventilated place. Keep container tightly closed
Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F

Precautionary Statements - Disposal
Dispose of contents/container to an approved waste disposal plant

Hazards not otherwise classified (HNOC)
Other Information
• Harmful to aquatic life with long lasting effects
• MAY BE HARMFUL IF SWALLOWED
• May be harmful in contact with skin
• Toxic to aquatic life with long lasting effects

3. Composition/information on Ingredients

Synonyms  Graffiti Remover.
Chemical Family  MIXTURES.
Formula  7-7785-3

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>CAS No</th>
<th>weight-%</th>
<th>Trade secret</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acetone</td>
<td>67-64-1</td>
<td>20-25</td>
<td>*</td>
</tr>
<tr>
<td>Dimethyl Glutarate</td>
<td>1119-40-0</td>
<td>10-15</td>
<td>*</td>
</tr>
<tr>
<td>Petroleum naphtha, light aromatic</td>
<td>64742-95-6</td>
<td>10-15</td>
<td>*</td>
</tr>
<tr>
<td>Propane</td>
<td>74-98-6</td>
<td>5-10</td>
<td>*</td>
</tr>
<tr>
<td>Toluene</td>
<td>108-88-3</td>
<td>5-10</td>
<td>*</td>
</tr>
<tr>
<td>N-Butane</td>
<td>106-97-8</td>
<td>5-10</td>
<td>*</td>
</tr>
<tr>
<td>1,2,4 Trimethylbenzene</td>
<td>95-63-6</td>
<td>5-10</td>
<td>*</td>
</tr>
<tr>
<td>Propylene carbonate</td>
<td>108-32-7</td>
<td>1-5</td>
<td>*</td>
</tr>
<tr>
<td>Ethyl alcohol</td>
<td>64-17-5</td>
<td>1-5</td>
<td>*</td>
</tr>
<tr>
<td>Pine Oil</td>
<td>8002-09-3</td>
<td>1-5</td>
<td>*</td>
</tr>
<tr>
<td>D-Limonene</td>
<td>5989-27-5</td>
<td>1-5</td>
<td>*</td>
</tr>
<tr>
<td>Diacetone alcohol</td>
<td>123-42-2</td>
<td>1-5</td>
<td>*</td>
</tr>
<tr>
<td>Cocamide diethanolamine</td>
<td>68603-42-9</td>
<td>1-2</td>
<td>*</td>
</tr>
<tr>
<td>Cumene</td>
<td>98-82-8</td>
<td>&lt;1</td>
<td>*</td>
</tr>
</tbody>
</table>

* The exact percentage (concentration) of composition has been withheld as a trade secret.

4. First aid measures

FIRST AID MEASURES

Eye Contact  Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.

Skin contact  Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.

Inhalation  If overcome by vapor, move person to fresh air. If person is not breathing, call 911 or an ambulance, then provide artificial respiration, preferably mouth-to-mouth, if possible. Call a poison control center or doctor for further treatment advise.

INGESTION  Call a poison control center or doctor for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give anything by mouth to an unconscious person.

Most important symptoms and effects, both acute and delayed

Symptoms  Acute: Prolonged inhalation of concentrated vapor or mist may cause headaches, dizziness and nausea. Prolonged and repeated contact with skin may cause irritation and reddening. Contact with eyes causes irritation.

Indication of any immediate medical attention and special treatment needed

Note to physicians  Contains petroleum distillates, do not induce vomiting because of aspiration pneumonia hazard.

5. Fire-fighting measures

Suitable extinguishing media  Dry chemical, CO2 or water spray.
Unsuitable extinguishing media  Caution: Use of water spray when fighting fire may be inefficient.

Specific hazards arising from the chemical
This product is under pressure. Water spray may be used to cool cans in the vicinity of fire or excessive heat to prevent the explosion of the cans.

Hazardous combustion products  Thermal decomposition may yield gases like nitrogen oxides, carbon monoxide and carbon dioxide.

Explosion data
Sensitivity to Mechanical Impact  Contents under pressure. This product is extremely flammable. Keep away from heat, sparks, flame and other sources of ignition (i.e., pilot lights, electric motors and static electricity).

Sensitivity to Static Discharge  Keep away from heat, sparks, flame, and other sources of ignition (i.e., pilot lights, electric motors and static electricity).

Protective equipment and precautions for firefighters
As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Personal precautions  Use in well-ventilated area ONLY. NOTICE: Reports have associated repeated and prolonged occupational over exposure to solvents with permanent brain and nervous system damage. Intentional misuse by deliberately concentrating and inhaling the contents can be harmful or fatal. To avoid breathing vapor or spray mist open windows and doors or use other means to ensure fresh air entry during application and drying. If you experience eye watering, headaches, or dizziness, increase fresh air or wear an appropriate, properly fitted respirator (NIOSH approved), or leave the area. NOTE: Follow respirator manufacture's instructions carefully for respirator use.

For emergency responders  Remove all sources of ignition.

Environmental Precautions  See Section 12 for additional Ecological Information.

Methods and material for containment and cleaning up

Methods for Containment  Provide adequate ventilation to area being treated. Soak up spills with chemically inert, absorbent material.

Methods for cleaning up  Clean contaminated surface thoroughly.

7. Handling and Storage

Precautions for safe handling

Advice on safe handling  Handle as an extremely flammable material. Avoid contact with skin, eyes and clothing. Store cans in a cool, dry place away from heat and open flame.

Conditions for safe storage, including any incompatibilities

Storage Conditions  Keep away from heat, sparks, flame and other sources of ignition (i.e., pilot lights, electric motors and static electricity). AEROSOL STORAGE LEVEL III (NFPA-30B).

Incompatible Materials  Avoid heat, open flame and contact with strong acids, strong bases and strong oxidizers.

8. Exposure Controls/Personal Protection
Control parameters

Exposure guidelines
See occupational exposure limits listed below.

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>ACGIH TLV</th>
<th>OSHA PEL</th>
<th>NIOSH IDLH</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acetone 67-64-1</td>
<td>STEL: 750 ppm TWA: 500 ppm</td>
<td>TWA: 1000 ppm TWA: 2400 mg/m³ (vacated) TWA: 750 ppm (vacated) TWA: 1800 mg/m³ (vacated) STEL: 2400 mg/m³</td>
<td>IDLH: 2500 ppm TWA: 250 ppm TWA: 590 mg/m³</td>
</tr>
<tr>
<td>Propane 74-98-6</td>
<td>TWA: 1000 ppm</td>
<td>TWA: 1000 ppm TWA: 1800 mg/m³ (vacated) TWA: 1000 ppm (vacated) TWA: 1800 mg/m³</td>
<td>IDLH: 2100 ppm TWA: 1000 ppm TWA: 1800 mg/m³</td>
</tr>
<tr>
<td>Toluene 108-88-3</td>
<td>TWA: 20 ppm</td>
<td>TWA: 200 ppm (vacated) TWA: 100 ppm (vacated) TWA: 375 mg/m³ (vacated) STEL: 150 ppm (vacated) STEL: 560 mg/m³ Ceiling: 300 ppm</td>
<td>IDLH: 500 ppm TWA: 100 ppm TWA: 375 mg/m³ STEL: 150 ppm STEL: 560 mg/m³</td>
</tr>
<tr>
<td>N-Butane 106-97-8</td>
<td>STEL: 1000 ppm</td>
<td>(vacated) TWA: 800 ppm (vacated) TWA: 1900 mg/m³</td>
<td>TWA: 800 ppm TWA: 1900 mg/m³</td>
</tr>
<tr>
<td>1,2,4 Trimethylbenzene 95-63-6</td>
<td>-</td>
<td>-</td>
<td>TWA: 25 ppm TWA: 125 mg/m³</td>
</tr>
<tr>
<td>Ethyl alcohol 64-17-5</td>
<td>STEL: 1000 ppm</td>
<td>TWA: 1000 ppm TWA: 1900 mg/m³ (vacated) TWA: 1000 ppm (vacated) TWA: 1900 mg/m³</td>
<td>IDLH: 3300 ppm TWA: 1000 ppm TWA: 1900 mg/m³</td>
</tr>
<tr>
<td>Diacetone alcohol 123-42-2</td>
<td>TWA: 50 ppm</td>
<td>TWA: 50 ppm TWA: 240 mg/m³ (vacated) TWA: 50 ppm (vacated) TWA: 240 mg/m³</td>
<td>IDLH: 1800 ppm TWA: 50 ppm TWA: 240 mg/m³</td>
</tr>
<tr>
<td>Cumene 98-82-8</td>
<td>TWA: 50 ppm</td>
<td>TWA: 50 ppm TWA: 245 mg/m³ (vacated) TWA: 50 ppm (vacated) TWA: 245 mg/m³</td>
<td>IDLH: 900 ppm TWA: 50 ppm TWA: 245 mg/m³</td>
</tr>
</tbody>
</table>

Appropriate engineering controls

Engineering controls
Use with adequate general or local exhaust ventilation.

Individual protection measures, such as personal protective equipment

Eye/face Protection
Conventional eyeglasses to guard against splashing.

Skin and Body Protection
Chemical resistant gloves required.

Respiratory protection
Use in well-ventilated area ONLY. NOTICE: Reports have associated repeated and prolonged occupational over exposure to solvents with permanent brain and nervous system damage. Intentional misuse by deliberately concentrating and inhaling the contents can be harmful or fatal. To avoid breathing vapor or spray mist open windows and doors or use other means to ensure fresh air entry during application and drying. If you experience eye watering, headaches, or dizziness, increase fresh air or wear an appropriate, properly fitted respirator (NIOSH approved), or leave the area. NOTE: Follow respirator manufacturer's instructions carefully for respirator use.

General hygiene considerations
Wash hands thoroughly after handling. Wash contaminated clothing before reuse.

9. Physical and Chemical Properties
Information on basic physical and chemical properties

Physical State
Aerosol

Appearance
Dark yellow to light green liquid

dark yellow

Physical State
Aerosol

Color
Odor
Petroleum distillates

Odor threshold
No information available

Oxidizing properties
No information available

Other Information
Softening point
No information available

Molecular weight
No information available

VOC content (%)
49.85%

Density
7.58 lb/gal

Bulk Density
No information available

Evaporation Rate
Faster than butyl acetate

Flammability (solid, gas)
Not applicable

Flammability Limits in Air
Upper flammability limits
Not applicable

Lower Flammability Limit
Not applicable

Vapor pressure
No information available

Vapor Density
No information available

Specific gravity
0.910 +/- 0.015 concentrate

Water solubility
Insoluble in water

Solubility in other solvents
No information available

Partition coefficient
No information available

Autoignition Temperature
No information available

Decomposition temperature
No information available

Kinematic viscosity
No information available

Dynamic viscosity
No information available

Explosive properties
No information available

Oxidizing properties
No information available

Other Information
Softening point
No information available

Molecular weight
No information available

VOC content (%)
49.85%

Density
7.58 lb/gal

Bulk Density
No information available

10. Stability and Reactivity

Reactivity
Not applicable

no data available

Chemical stability
Stable.

Possibility of hazardous reactions
Temperatures above 130 °F may cause cans to burst with force.

hazardous polymerization
Hazardous polymerization does not occur.

Conditions to Avoid
Temperatures above 122 °F (50 °C).

Incompatible Materials
Avoid heat, open flame and contact with strong acids, strong bases and strong oxidizers.

Hazardous decomposition products
Thermal decomposition may yield gases like nitrogen oxides, carbon monoxide and carbon dioxide.

11. Toxicological Information
Information on likely routes of exposure

Product Information

This product has not been tested as whole. See below for information on ingredients.

**inhalation**
no data available.

**Eye Contact**
no data available.

**Skin contact**
no data available.

**INGESTION**
no data available.

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>Oral LD50</th>
<th>dermal LD50</th>
<th>Inhalation LC50</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acetone 67-64-1</td>
<td>= 5800 mg/kg (Rat)</td>
<td>-</td>
<td>= 50100 mg/m³ (Rat) 8 h</td>
</tr>
<tr>
<td>Dimethyl Glutarate 1119-40-0</td>
<td>= 8191 mg/kg (Rat)</td>
<td>-</td>
<td>&gt; 5.6 mg/L (Rat) 4 h</td>
</tr>
<tr>
<td>Petroleum naphtha, light aromatic 64742-95-6</td>
<td>= 8400 mg/kg (Rat)</td>
<td>&gt; 2000 mg/kg (Rabbit)</td>
<td>= 3400 ppm (Rat) 4 h</td>
</tr>
<tr>
<td>Propane 74-98-6</td>
<td>-</td>
<td>-</td>
<td>= 658 mg/L (Rat) 4 h</td>
</tr>
<tr>
<td>Toluene 108-88-3</td>
<td>= 2600 mg/kg (Rat)</td>
<td>= 12000 mg/kg (Rabbit)</td>
<td>= 12.5 mg/L (Rat) 4 h</td>
</tr>
<tr>
<td>N-Butane 106-97-8</td>
<td>-</td>
<td>-</td>
<td>= 658 g/m³ (Rat) 4 h</td>
</tr>
<tr>
<td>1,2,4 Trimethylbenzene 95-63-6</td>
<td>= 3280 mg/kg (Rat)</td>
<td>&gt; 3160 mg/kg (Rabbit)</td>
<td>= 18 g/m³ (Rat) 4 h</td>
</tr>
<tr>
<td>Propylene carbonate 108-32-7</td>
<td>= 29000 mg/kg (Rat)</td>
<td>&gt; 20 mL/kg (Rabbit)</td>
<td>-</td>
</tr>
<tr>
<td>Ethyl alcohol 64-17-5</td>
<td>= 7060 mg/kg (Rat)</td>
<td>-</td>
<td>= 124.7 mg/L (Rat) 4 h</td>
</tr>
<tr>
<td>Pine Oil 8002-09-3</td>
<td>= 3200 mg/kg (Rat)</td>
<td>= 5 g/kg (Rabbit)</td>
<td>-</td>
</tr>
<tr>
<td>D-Limonene 5989-27-5</td>
<td>= 4400 mg/kg (Rat)</td>
<td>&gt; 5 g/kg (Rabbit)</td>
<td>-</td>
</tr>
<tr>
<td>Diacetone alcohol 123-42-2</td>
<td>= 4 g/kg (Rat)</td>
<td>= 13500 mg/kg (Rabbit)</td>
<td>-</td>
</tr>
<tr>
<td>Cocamide diethanolamine 68603-42-9</td>
<td>= 12400 µL/kg (Rat)</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Cumene 98-82-8</td>
<td>= 1400 mg/kg (Rat)</td>
<td>= 12300 µL/kg (Rabbit)</td>
<td>&gt; 3577 ppm (Rat) 6 h = 39000 mg/m³ (Rat) 4 h</td>
</tr>
</tbody>
</table>

Information on toxicological effects

**Symptoms**

Inhalation of high vapor concentrations may cause symptoms like headache, dizziness, tiredness, nausea and vomiting.

**Delayed and immediate effects as well as chronic effects from short and long-term exposure**

**Skin corrosion/irritation**

May cause skin irritation and reddening after prolonged or repeated contact with skin.

**Serious eye damage/eye irritation**

Irritating to eyes.

**corrosivity**

May cause skin and eye irritation.

**sensitization**

Not applicable.

**Germ Cell Mutagenicity**

No information available.

**carcinogenicity**

The table below indicates whether each agency has listed any ingredient as a carcinogen. Ethanol has been shown to be carcinogenic in long-term studies only when consumed as alcoholic beverage.

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>ACGIH</th>
<th>IARC</th>
<th>NTP</th>
<th>OSHA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Toluene 108-88-3</td>
<td></td>
<td>Group 3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>D-Limonene 5989-27-5</td>
<td></td>
<td>Group 2A</td>
<td>Group 3</td>
<td>X</td>
</tr>
</tbody>
</table>

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Cocamide diethanolamine
68603-42-9 Group 2B X
Cumene
98-82-8 Group 2B X

Reproductive Toxicity
No information available.
STOT - single exposure
No information available.
STOT - repeated exposure
No information available.
Aspiration Hazard
No information available.

Numerical measures of toxicity - Product Information

Unknown acute toxicity
The following values are calculated based on chapter 3.1 of the GHS document.

- **ATEmix (oral)**: 3025 mg/kg
- **ATEmix (dermal)**: 3918 mg/kg
- **ATEmix (inhalation-gas)**: 1395 mg/l
- **ATEmix (inhalation-dust/mist)**: 3.7 mg/l
- **ATEmix (inhalation-vapor)**: 13 mg/l

### 12. Ecological Information

This product contains chemicals which are listed as a marine pollutants according to DOT.

**ecotoxicity**

31.05% of the mixture consists of components(s) of unknown hazards to the aquatic environment

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>Algae/aquatic plants</th>
<th>Fish</th>
<th>Toxicty to Microorganisms</th>
<th>Crustacea</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acetone 67-64-1</td>
<td>6210 - 8120: 96 h Pimephales promelas mg/L LC50 static 4.74 - 6.33: 96 h</td>
<td></td>
<td>EC50 = 14500 mg/L 15 min</td>
<td>10294 - 17704: 48 h Daphnia magna mg/L EC50</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Oncorhynchus mykiss mL/L 8300: 96 h Lepomis macrochirus mg/L LC50</td>
<td></td>
<td>Static 12600 - 12700: 48 h Daphnia magna mg/L EC50</td>
</tr>
<tr>
<td>Dimethyl Glutarate 1119-40-0</td>
<td>19.6 - 26.2: 96 h Pimephales promelas mg/L LC50 static</td>
<td></td>
<td></td>
<td>122.1 - 163.5: 48 h Daphnia magna mg/L EC50</td>
</tr>
<tr>
<td>Petroleum naphtha, light aromatic 64742-95-6</td>
<td>9.22: 96 h Oncorhynchus mykiss mg/L LC50</td>
<td></td>
<td></td>
<td>6.14: 48 h Daphnia magna mg/L EC50</td>
</tr>
<tr>
<td>Toluene 108-88-3</td>
<td>433: 96 h Pseudokirchneriella subcapitata mg/L EC50 12.5: 72 h Pseudokirchneriella subcapitata mg/L EC50 static</td>
<td>15.22 - 19.05: 96 h Pimephales promelas mg/L LC50 flow-through 12.6: 96 h Pimephales promelas mg/L LC50 static 5.89 - 7.81: 96 h Oncorhynchus mykiss mg/L LC50 flow-through 54: 96 h Oryzias latipes mg/L LC50 static 11.0 - 15.0: 96 h Lepomis macrochirus mg/L LC50 static 28.2: 96 h Poecilia reticulata mg/L LC50 semi-static 50.87 - 70.34: 96 h Poecilia reticulata mg/L LC50 static 14.1 - 17.16: 96 h Oncorhynchus mykiss mg/L LC50 static 5.8: 96 h Oncorhynchus mykiss mg/L LC50 semi-static</td>
<td>EC50 = 19.7 mg/L 30 min</td>
<td>5.46 - 9.83: 48 h Daphnia magna mg/L EC50 Static 11.5: 48 h Daphnia magna mg/L EC50</td>
</tr>
<tr>
<td>1,2,4 Trimethylbenzene 95-63-6</td>
<td>7.19 - 8.28: 96 h Pimephales promelas mg/L LC50 flow-through</td>
<td></td>
<td></td>
<td>6.14: 48 h Daphnia magna mg/L EC50</td>
</tr>
<tr>
<td>Propylene carbonate 108-32-7</td>
<td>500: 72 h Desmodesmus subspicatus mg/L EC50 1000: 96 h Cyprinus carpio mg/L LC50 semi-static 5300:</td>
<td>EC50 &gt; 10000 mg/L 17 h</td>
<td></td>
<td>500: 48 h Daphnia magna mg/L EC50</td>
</tr>
<tr>
<td>Chemical name</td>
<td>Partition coefficient</td>
<td></td>
<td></td>
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</tr>
<tr>
<td>-------------------------------</td>
<td>------------------------</td>
<td></td>
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</tr>
<tr>
<td>Acetone</td>
<td>-0.24</td>
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</tr>
<tr>
<td>Propane</td>
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<tr>
<td>Toluene</td>
<td>2.65</td>
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<tr>
<td>N-Butane</td>
<td>2.89</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1,2,4 Trimethylbenzene</td>
<td>3.63</td>
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<td></td>
<td></td>
</tr>
<tr>
<td>Propylene carbonate</td>
<td>0.48</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ethyl alcohol</td>
<td>-0.32</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Diacetone alcohol</td>
<td>1.03</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cumene</td>
<td>3.55</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Other adverse effects

Ozone

No information available

This product does not contain CFCs or other ozone depleting substances. Federal regulations prohibit the use CFC propellants in aerosols.

13. Disposal Considerations
Disposal of wastes
Dispose of in accordance with federal, state and local regulations.

Contaminated packaging
Pressurized container: Do not pierce or burn, even after use. Do not puncture or incinerate container. If empty: Place in trash or offer for recycling if available. If partly filled: Call your local solid waste agency for disposal instructions.

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>RCRA</th>
<th>RCRA - Basis for Listing</th>
<th>RCRA - D Series Wastes</th>
<th>RCRA - U Series Wastes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acetone 67-64-1</td>
<td></td>
<td>Included in waste stream: F039</td>
<td></td>
<td>U002</td>
</tr>
<tr>
<td>Toluene 108-88-3</td>
<td>U220</td>
<td>Included in waste streams: F005, F024, F025, F039, K015, K036, K037, K149, K151</td>
<td></td>
<td>U220</td>
</tr>
<tr>
<td>Cumene 98-82-8</td>
<td></td>
<td></td>
<td></td>
<td>U055</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Toluene 108-88-3</td>
<td>Toxic waste waste number F025</td>
<td>Toxic</td>
<td>Ignitable</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Waste description: Condensed light ends, spent filters and filter aids, and spent desiccant wastes from the production of certain chlorinated aliphatic hydrocarbons, by free radical catalyzed processes. These chlorinated aliphatic hydrocarbons are those having carbon chain lengths ranging from one to and including five, with varying amounts and positions of chlorine substitution.</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>California Hazardous Waste Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acetone 67-64-1</td>
<td>Ignitable</td>
</tr>
<tr>
<td>Toluene 108-88-3</td>
<td>Ignitable</td>
</tr>
<tr>
<td>Ethyl alcohol 64-17-5</td>
<td>Ignitable</td>
</tr>
<tr>
<td>D-Limonene 5989-27-5</td>
<td>Ignitable</td>
</tr>
<tr>
<td>Cumene 98-82-8</td>
<td>Ignitable</td>
</tr>
</tbody>
</table>

14. Transport Information

**DOT**
**UN/ID no** UN1950
**Proper Shipping Name** Limited quantity (LQ)
**Hazard Class** 2.1
**Marine pollutant** This product contains chemicals which are listed as a marine pollutants according to DOT.
15. Regulatory information

### International Inventories

**TSCA**
All ingredients of this product are listed or are excluded from listing under the U.S. Toxic Substances Control Act (TSCA) Chemical Substance Inventory.

**DSL**
All ingredients are listed or are excluded from listing on the DSL.

**Legend:**
- **TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory
- **DSL/NDSL** - Canadian Domestic Substances List/Non-Domestic Substances List

### US Federal Regulations

#### SARA 313
This product contains the following toxic chemicals subject to the reporting requirements of Section 313 of the Emergency Planning and Community Right-to-Know Act of 1986 and 40 CFR 372. This information must be included in all SDSs that are copied and distributed for this material.

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>CAS No</th>
<th>weight-%</th>
<th>SARA 313 - Threshold Values %</th>
</tr>
</thead>
<tbody>
<tr>
<td>Toluene - 108-88-3</td>
<td>108-88-3</td>
<td>5-10</td>
<td>1.0</td>
</tr>
<tr>
<td>1,2,4 Trimethylbenzene - 95-63-6</td>
<td>95-63-6</td>
<td>5-10</td>
<td>1.0</td>
</tr>
<tr>
<td>Cumene - 98-82-8</td>
<td>98-82-8</td>
<td>&lt;1</td>
<td>1.0</td>
</tr>
</tbody>
</table>

#### SARA 311/312 Hazard Categories

<table>
<thead>
<tr>
<th>Hazard Category</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acute Health Hazard</td>
</tr>
<tr>
<td>Chronic Health Hazard</td>
</tr>
<tr>
<td>Fire Hazard</td>
</tr>
<tr>
<td>Sudden release of pressure hazard</td>
</tr>
<tr>
<td>Reactive Hazard</td>
</tr>
</tbody>
</table>

### CWA (Clean Water Act)

This product contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>CWA - Reportable Quantities</th>
<th>CWA - Toxic Pollutants</th>
<th>CWA - Priority Pollutants</th>
<th>CWA - Hazardous Substances</th>
</tr>
</thead>
<tbody>
<tr>
<td>Toluene - 108-88-3</td>
<td>1000 lb</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
</tbody>
</table>

### CERCLA

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302)

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>Hazardous Substances RQs</th>
<th>CERCLA/SARA RQ</th>
<th>Reportable Quantity (RQ)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acetone 67-64-1</td>
<td>5000 lb</td>
<td>RQ 5000 lb final RQ</td>
<td></td>
</tr>
<tr>
<td>Toluene 108-88-3</td>
<td>1 lb</td>
<td>RQ 1 lb final RQ</td>
<td></td>
</tr>
<tr>
<td>Cumene 98-82-8</td>
<td>5000 lb</td>
<td>RQ 5000 lb final RQ</td>
<td></td>
</tr>
</tbody>
</table>

### US State Regulations

#### California Proposition 65
This product contains the following Proposition 65 chemicals.

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>California Proposition 65</th>
</tr>
</thead>
<tbody>
<tr>
<td>Toluene - 108-88-3</td>
<td>Developmental</td>
</tr>
<tr>
<td>Cocamide diethanolamine - 68603-42-9</td>
<td>Female Reproductive</td>
</tr>
<tr>
<td>Cumene - 98-82-8</td>
<td>Carcinogen</td>
</tr>
</tbody>
</table>

#### U.S. State Right-to-Know Regulations

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>New Jersey</th>
<th>Massachusetts</th>
<th>Pennsylvania</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acetone 67-64-1</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
</tbody>
</table>
Propane  
74-98-6  
X  
X  
X  
Toluene  
108-88-3  
X  
X  
X  
N-Butane  
106-97-8  
X  
X  
X  
1,2,4 Trimethylbenzene  
95-63-6  
X  
X  
X  
Ethyl alcohol  
64-17-5  
X  
X  
X  
Pine Oil  
8002-09-3  
X  
Diacetone alcohol  
123-42-2  
X  
X  
X  
Cumene  
98-82-8  
X  
X  
X

U.S. EPA Label information  
EPA Pesticide registration number  
Not applicable

16. Other information

<table>
<thead>
<tr>
<th>NFPA</th>
<th>Health Hazards</th>
<th>Flammability</th>
<th>Instability</th>
<th>Physical and chemical properties</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>2</td>
<td>4</td>
<td>1</td>
<td>Not applicable</td>
</tr>
</tbody>
</table>

HMIS  
Health Hazards  2*  Flammability  4  Physical Hazards  1  Personal Protection  X

Prepared by  
Regulatory Department

Issue date  
12-Mar-2015

Revision note  
This SDS supercedes a previous MSDS dated: Sept. 10, 2013

Disclaimer  
The information provided in this Material 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.

End of Safety Data Sheet