



# SAFETY DATA SHEET

## 1. Identification

|  |   |                |  |
|--|---|----------------|--|
| Product identifier                                     | Gunk Mass Air Flow Sensor Cleaner           |                |  |
| Other means of identification                          |   |                |  |
| SDS number   | MAS6  |                |  |
| Part No.   | MAS6  |                |  |
| Tariff code  | 3814.00.5090                                |                |  |
| Recommended use  | Cleaner                                     |                |  |
| Recommended restrictions                               | None known.                                 |                |  |
| Manufacturer/Importer/Supplier/Distributor information |   |                |  |
| Manufacturer   |   |                |  |
| Company name   | Blumenthal Brands Integrated, LLC           |                |  |
| Address  | 600 Radiator Road<br>Indian Trail, NC 28079 |                |  |
| Telephone  | Customer Service/<br>Technical              | (704) 821-7643 |  |
| Website  | www.solvewithB.com                          |                |  |
| E-mail   | sds@solvewithB.com                          |                |  |
| Emergency phone number                                 | INFOTRAC (United States)                    | (800) 535-5053 |  |
|  | INFOTRAC (International)                    | (352) 323-3500 |  |

## 2. Hazard(s) identification

|                       |  |                             |
|-----------------------|--|-----------------------------|
| Physical hazards      | Flammable aerosols                                     | Category 1                  |
| Health hazards        | Skin corrosion/irritation                              | Category 2                  |
|                       | Specific target organ toxicity, single exposure        | Category 3 narcotic effects |
|                       | Aspiration hazard                                      | Category 1                  |
| Environmental hazards | Hazardous to the aquatic environment, acute hazard     | Category 1                  |
|                       | Hazardous to the aquatic environment, long-term hazard | Category 1                  |
| OSHA defined hazards  | Not classified.  |                             |
| Label elements        |  |                             |



|                         |   |
|-------------------------|---|
| Signal word             | Danger  |
| Hazard statement        | Extremely flammable aerosol. Causes skin irritation. May cause drowsiness or dizziness. Very toxic to aquatic life. Very toxic to aquatic life with long lasting effects.   |
| Precautionary statement |   |
| Prevention              | 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. Avoid breathing mist or vapor. Wash thoroughly after handling. Use only outdoors or in a well-ventilated area. Avoid release to the environment. Wear protective gloves. |
| Response                | If on skin: Wash with plenty of water. If inhaled: Remove person to fresh air and keep comfortable for breathing. Call a poison center/doctor if you feel unwell. If skin irritation occurs: Get medical advice/attention. Take off contaminated clothing and wash before reuse. Collect spillage.  |
| Storage                 | Store in a well-ventilated place. Keep container tightly closed. Store locked up. Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.  |
| Disposal                | Dispose of contents/container in accordance with local/regional/national/international regulations.   |

|   |             |
|---|-------------|
| Hazard(s) not otherwise classified (HNOC) | None known. |
| Supplemental information                  | None.       |

### 3. Composition/information on ingredients

#### Mixtures

| Chemical name      | Common name and synonyms | CAS number | %         |
|--------------------|--------------------------|------------|-----------|
| Heptane            |                          | 142-82-5   | 70 - < 80 |
| 1,1-difluoroethane |                          | 75-37-6    | 20 - < 30 |

\*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>   | Remove contaminated clothing. Wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention. Wash contaminated clothing before reuse. |
| <b>Eye contact</b>  | Rinse with water. Get medical attention if irritation develops and persists.  |
| <b>Ingestion</b>  | In the unlikely event of swallowing contact a physician or poison control center. Rinse mouth.  |
| <b>Most important symptoms/effects, acute and delayed</b>                     | May cause drowsiness and dizziness. Headache. Nausea, vomiting. Skin irritation. May cause redness and pain.  |
| <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>  | Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.  |

### 5. Fire-fighting measures

|  |  |
|--|--|
| <b>Suitable extinguishing media</b>                                  | Powder. Foam. Carbon dioxide (CO2).  |
| <b>Unsuitable extinguishing media</b>                                | Do not use water jet as an extinguisher, as this will spread the fire.   |
| <b>Specific hazards arising from the chemical</b>                    | Contents under pressure. Pressurized container may explode when exposed to heat or flame. During fire, gases hazardous to health may be formed.  |
| <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>                          | 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. In the event of fire and/or explosion do not breathe fumes.   |
| <b>General fire hazards</b>  | Extremely flammable aerosol.   |

### 6. Accidental release measures

|  |   |
|--|---|
| <b>Personal precautions, protective equipment and emergency procedures</b> | Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. Avoid breathing mist or vapor. 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.   |
| <b>Methods and materials for containment and cleaning up</b>               | 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. Cover with plastic sheet to prevent spreading. Absorb in vermiculite, dry sand or earth and place into containers. Prevent product from entering drains. Following product recovery, flush area with water. |
| <b>Environmental precautions</b>   | Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.<br>Avoid release to the environment. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground. Inform appropriate managerial or supervisory personnel of all environmental releases.  |

## 7. Handling and storage

### Precautions for safe handling

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. Avoid breathing mist or vapor. Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. Use only in well-ventilated areas. Wear appropriate personal protective equipment. Avoid release to the environment. Observe good industrial hygiene practices.

### Conditions for safe storage, including any incompatibilities

Level 3 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.

## 8. Exposure controls/personal protection

### Occupational exposure limits

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

| Components             | Type | Value                 |
|------------------------|------|-----------------------|
| Heptane (CAS 142-82-5) | PEL  | 2000 mg/m3<br>500 ppm |

#### US. ACGIH Threshold Limit Values

| Components             | Type | Value   |
|------------------------|------|---------|
| Heptane (CAS 142-82-5) | STEL | 500 ppm |
|                        | TWA  | 400 ppm |

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

| Components             | Type    | Value                 |
|------------------------|---------|-----------------------|
| Heptane (CAS 142-82-5) | Ceiling | 1800 mg/m3<br>440 ppm |
|                        | TWA     | 350 mg/m3<br>85 ppm   |

#### US. Workplace Environmental Exposure Level (WEEL) Guides

| Components                       | Type | Value                  |
|----------------------------------|------|------------------------|
| 1,1-difluoroethane (CAS 75-37-6) | TWA  | 2700 mg/m3<br>1000 ppm |

### Biological limit values

No biological exposure limits noted for the ingredient(s).

### 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)

#### Skin protection

##### Hand protection

Wear appropriate chemical resistant gloves. Suitable gloves can be recommended by the glove supplier.

##### Other

Wear appropriate chemical resistant clothing.

#### Respiratory protection

Chemical respirator with organic vapor cartridge and full facepiece if threshold limits are exceeded.

#### Thermal hazards

Wear appropriate thermal protective clothing, when necessary.

### General hygiene considerations

When using do not 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.

## 9. Physical and chemical properties

|   |                                    |
|---|------------------------------------|
| <b>Appearance</b>                                   | Clear. Liquid                      |
| <b>Physical state</b>                               | Liquid.                            |
| <b>Form</b>   | Aerosol.                           |
| <b>Color</b>  | Colorless                          |
| <b>Odor</b>   | hydrocarbon                        |
| <b>Odor threshold</b>                               | Not available.                     |
| <b>pH</b>   | Not available.                     |
| <b>Melting point/freezing point</b>                 | -144.39 °F (-97.99 °C) estimated   |
| <b>Initial boiling point and boiling range</b>      | 147.21 °F (64 °C) estimated        |
| <b>Flash point</b>                                  | < 0 °F (< -17.8 °C) Tag Closed Cup |
| <b>Evaporation rate</b>                             | Not available.                     |
| <b>Flammability (solid, gas)</b>                    | Not applicable.                    |
| <b>Upper/lower flammability or explosive limits</b> |                                    |
| <b>Flammability limit - lower (%)</b>               | Not available.                     |
| <b>Flammability limit - upper (%)</b>               | Not available.                     |
| <b>Explosive limit - lower (%)</b>                  | Not available.                     |
| <b>Explosive limit - upper (%)</b>                  | Not available.                     |
| <b>Vapor pressure</b>                               | 1742.6936 hPa estimated            |
| <b>Vapor density</b>                                | Not available.                     |
| <b>Relative density</b>                             | Not available.                     |
| <b>Solubility(ies)</b>                              |                                    |
| <b>Solubility (water)</b>                           | Not available.                     |
| <b>Partition coefficient (n-octanol/water)</b>      | Not available.                     |
| <b>Auto-ignition temperature</b>                    | Not available.                     |
| <b>Decomposition temperature</b>                    | Not available.                     |
| <b>Viscosity</b>                                    | Not available.                     |
| <b>Other information</b>                            |                                    |
| <b>Density</b>                                      | 5.84 lbs/gal                       |
| <b>Explosive properties</b>                         | Not explosive.                     |
| <b>Flame extension</b>                              | < 18 in                            |
| <b>Flammability (flash back)</b>                    | Yes                                |
| <b>Flammability class</b>                           | Flammable IB estimated             |
| <b>Heat of combustion (NFPA 30B)</b>                | 31.28 kJ/g                         |
| <b>Oxidizing properties</b>                         | Not oxidizing.                     |
| <b>Specific gravity</b>                             | 0.7                                |
| <b>VOC</b>  | < 74 % w/w                         |

## 10. Stability and reactivity

|   |   |
|---|---|
| <b>Reactivity</b>                         | The product is stable and non-reactive under normal conditions of use, storage and transport. |
| <b>Chemical stability</b>                 | Material is stable under normal conditions.   |
| <b>Possibility of hazardous reactions</b> | Hazardous polymerization does not occur.  |
| <b>Conditions to avoid</b>                | Avoid temperatures exceeding the flash point. Contact with incompatible materials.            |
| <b>Incompatible materials</b>             | Strong oxidizing agents.  |

**Hazardous decomposition products**

No hazardous decomposition products are known.

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

|                     |  |
|---------------------|--|
| <b>Inhalation</b>   | May cause drowsiness and dizziness. Headache. Nausea, vomiting. Prolonged inhalation may be harmful. |
| <b>Skin contact</b> | Causes skin irritation.  |
| <b>Eye contact</b>  | Direct contact with eyes may cause temporary irritation.   |
| <b>Ingestion</b>    | Expected to be a low ingestion hazard.   |

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

Headache. May cause drowsiness and dizziness. Nausea, vomiting. Skin irritation. May cause redness and pain.

**Information on toxicological effects****Acute toxicity** Narcotic effects.

| Components             | Species | Test Results           |
|------------------------|---------|------------------------|
| Heptane (CAS 142-82-5) |         |                        |
| <b>Acute</b>           |         |                        |
| <b>Dermal</b>          |         |                        |
| LD50                   | Rabbit  | > 2000 mg/kg, 24 Hours |
| <b>Inhalation</b>      |         |                        |
| <i>Vapor</i>           |         |                        |
| LC50                   | Rat     | > 29.29 mg/l, 4 Hours  |
| <b>Oral</b>            |         |                        |
| LD50                   | Rat     | > 5000 mg/kg           |

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

**Skin corrosion/irritation** Causes skin irritation.**Serious eye damage/eye irritation** Direct contact with eyes may cause temporary irritation.**Respiratory or skin sensitization****Respiratory sensitization** Not a respiratory sensitizer.**Skin sensitization** This product is not expected to cause skin sensitization.**Germ cell mutagenicity** No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.**Carcinogenicity** This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.**IARC Monographs. Overall Evaluation of Carcinogenicity**

Not listed.

**OSHA Specifically Regulated Substances (29 CFR 1910.1001-1052)**

Not regulated.

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

Not listed.

**Reproductive toxicity** This product is not expected to cause reproductive or developmental effects.**Specific target organ toxicity - single exposure** May cause drowsiness and dizziness.**Specific target organ toxicity - repeated exposure** Not classified.**Aspiration hazard** Not an aspiration hazard.**Chronic effects** Prolonged inhalation may be harmful.**12. Ecological information****Ecotoxicity** Very toxic to aquatic life with long lasting effects.

| Components             | Species | Test Results                            |
|------------------------|---------|---|
| Heptane (CAS 142-82-5) |         |   |
| <b>Aquatic</b>         |         |   |
| Fish                   | LC50    | Mozambique tilapia (Tilapia mossambica) |
|                        |         | 375 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

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

|                    |      |
|--------------------|------|
| 1,1-difluoroethane | 0.75 |
| Heptane            | 4.66 |

**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

|  |   |
|--|---|
| <b>Disposal instructions</b>                 | Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Contents under pressure. Do not puncture, incinerate or crush. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in accordance with local/regional/national/international regulations. |
| <b>Local disposal regulations</b>            | Dispose in accordance with all applicable regulations.  |
| <b>Hazardous waste code</b>                  | The waste code should be assigned in discussion between the user, the producer and the waste disposal company.  |
| <b>Waste from residues / unused products</b> | 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).  |
| <b>Contaminated packaging</b>                | Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal. 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), Limited Quantity |
| <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 available.   |
| <b>Special precautions for user</b> | Not available.   |
| <b>Special provisions</b>           | N82  |
| <b>Packaging exceptions</b>         | 306  |
| <b>Packaging non bulk</b>           | None   |
| <b>Packaging bulk</b>               | None   |

#### IATA

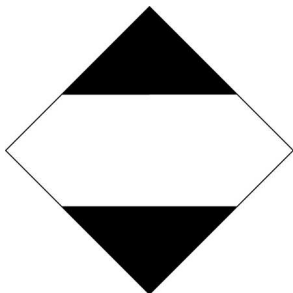
|                                     |                                       |
|-------------------------------------|---------------------------------------|
| <b>UN number</b>                    | UN1950                                |
| <b>UN proper shipping name</b>      | Aerosols, flammable, Limited Quantity |
| <b>Transport hazard class(es)</b>   |                                       |
| <b>Class</b>                        | 2.1                                   |
| <b>Subsidiary risk</b>              | -                                     |
| <b>Packing group</b>                | Not available.                        |
| <b>Environmental hazards</b>        | Yes                                   |
| <b>ERG Code</b>                     | 10L                                   |
| <b>Special precautions for user</b> | Not available.                        |
| <b>Other information</b>            |                                       |
| <b>Passenger and cargo aircraft</b> | Allowed with restrictions.            |
| <b>Cargo aircraft only</b>          | Allowed with restrictions.            |

**IMDG**

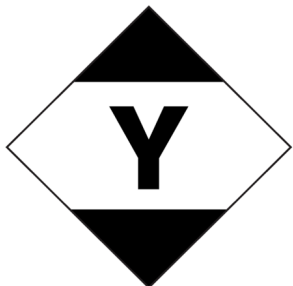
|                                     |   |
|-------------------------------------|---|
| <b>UN number</b>                    | UN1950  |
| <b>UN proper shipping name</b>      | AEROSOLS, MARINE POLLUTANT (HEPTANES), Limited Quantity |
| <b>Transport hazard class(es)</b>   |   |
| <b>Class</b>                        | 2   |
| <b>Subsidiary risk</b>              | -   |
| <b>Packing group</b>                | Not available.  |
| <b>Environmental hazards</b>        |   |
| <b>Marine pollutant</b>             | Yes   |
| <b>EmS</b>                          | F-D, S-U  |
| <b>Special precautions for user</b> | Not available.  |
| <b>HEPTANES</b>                     |   |

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

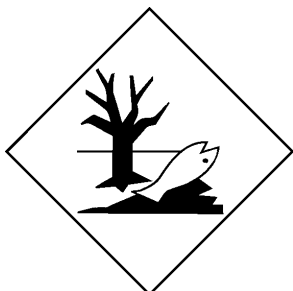
**DOT; IMDG**



**IATA**



**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.

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

Not regulated.

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

Heptane (CAS 142-82-5)

Listed.

**SARA 304 Emergency release notification**

Not regulated.

**OSHA Specifically Regulated Substances (29 CFR 1910.1001-1052)**

Not regulated.

**Superfund Amendments and Reauthorization Act of 1986 (SARA)****SARA 302 Extremely hazardous substance**

Not listed.

**Classified hazard categories**

Flammable (gases, aerosols, liquids, or solids)  
 Acute toxicity (any route of exposure)  
 Skin corrosion or irritation  
 Specific target organ toxicity (single or repeated exposure)  
 Aspiration hazard  
 Hazard not otherwise classified (HNOC)

**SARA 313 (TRI reporting)**

Not regulated.

**Other federal regulations****Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List**

Not regulated.

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

1,1-difluoroethane (CAS 75-37-6)

**Safe Drinking Water Act (SDWA)**

Not regulated.

**US state regulations****California Proposition 65**

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins.

**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)               | Yes                    |
| Korea                       | Existing Chemicals List (ECL)  | Yes                    |
| New Zealand                 | New Zealand Inventory  | Yes                    |
| Philippines                 | Philippine Inventory of Chemicals and Chemical Substances (PICCS)      | Yes                    |
| Taiwan                      | Taiwan Chemical Substance Inventory (TCSI)                             | Yes                    |
| 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**

|                      |  |
|----------------------|--|
| <b>Issue date</b>    | 05-06-2015   |
| <b>Revision date</b> | 01-07-2021   |
| <b>Version #</b>     | 04   |
| <b>HMIS® ratings</b> | Health: 3<br>Flammability: 4<br>Physical hazard: 0 |
| <b>NFPA ratings</b>  | Health: 2<br>Flammability: 4<br>Instability: 0     |



**NFPA ratings****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**

Hazard(s) identification: Supplemental information  
Physical & Chemical Properties: Multiple Properties  
Transport Information: Material Transportation Information