

## Chem-Set<sup>TM</sup> CMT3487

Issue Date: **05/13/2025**  
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S.GHS.USA.EN

### SECTION 1 Identification

#### Product Identifier

|                               |                                                                                         |
|-------------------------------|-----------------------------------------------------------------------------------------|
| Product name                  | Chem-Set CMT3487                                                                        |
| Synonyms                      | Not Available                                                                           |
| Proper shipping name          | Chemical under pressure, flammable, n.o.s. (contains methyl acetate and carbon dioxide) |
| Other means of identification | Not Available                                                                           |

#### Recommended use of the chemical and restrictions on use

|                          |                  |
|--------------------------|------------------|
| Relevant identified uses | CONTACT ADHESIVE |
|--------------------------|------------------|

#### Name, address, and telephone number of the chemical manufacturer, importer, or other responsible party

|                         |                             |
|-------------------------|-----------------------------|
| Registered company name | Chemical Concepts Inc.      |
| Address                 | 410 Pike Road               |
| Telephone               | 1.800.220.1966              |
| Fax                     | Not Available               |
| Website                 | chemical-concepts.com       |
| Email                   | sales@chemical-concepts.com |



#### Emergency phone number

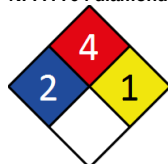
|                                     |                |
|-------------------------------------|----------------|
| Association / Organisation          | INFOTRAC       |
| Emergency telephone number(s)       | 1.800.535.5053 |
| Other emergency telephone number(s) | 1-800-220-1966 |

chemical-concepts.com  
**800.220.1966**  
410 Pike Road • Huntingdon Valley, PA 19006

### SECTION 2 Hazard(s) identification

#### Classification of the substance or mixture

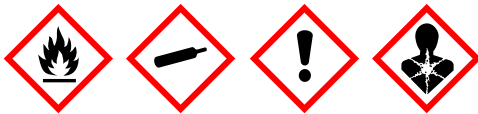
NFPA 704 diamond



Note: The hazard category numbers found in GHS classification in section 2 of this SDSs are NOT to be used to fill in the NFPA 704 diamond. Blue = Health Red = Fire Yellow = Reactivity White = Special (Oxidizer or water reactive substances)

|                |                                                                                                                                                                                                                                                                                     |
|----------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Classification | Flammable Liquids Category 1, Gases Under Pressure (Liquefied Gas), Skin Corrosion/Irritation Category 2, Serious Eye Damage/Eye Irritation Category 2A, Specific Target Organ Toxicity - Single Exposure Category 3, Specific Target Organ Toxicity - Repeated Exposure Category 2 |
|----------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

#### Label elements

|                     |                                                                                     |
|---------------------|-------------------------------------------------------------------------------------|
| Hazard pictogram(s) |  |
|---------------------|-------------------------------------------------------------------------------------|

|             |               |
|-------------|---------------|
| Signal word | <b>Danger</b> |
|-------------|---------------|

#### Hazard statement(s)

|           |                                                                                                      |
|-----------|------------------------------------------------------------------------------------------------------|
| H224      | Extremely flammable liquid and vapour.                                                               |
| H280      | Contains gas under pressure; may explode if heated.                                                  |
| H315      | Causes skin irritation.                                                                              |
| H319      | Causes serious eye irritation.                                                                       |
| H335+H336 | May cause respiratory irritation or drowsiness or dizziness.                                         |
| H373      | May cause damage to organs through prolonged or repeated exposure. (Respiratory system) (Inhalation) |

**Hazard(s) not otherwise classified**

Not Applicable

**Precautionary statement(s) Prevention**

|      |                                                                                                |
|------|------------------------------------------------------------------------------------------------|
| P210 | Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. |
| P233 | Keep container tightly closed.                                                                 |
| P260 | Do not breathe gas.                                                                            |
| P271 | Use only outdoors or in a well-ventilated area.                                                |
| P240 | Ground/bond container and receiving equipment.                                                 |
| P241 | Use explosion-proof electrical/ventilating/lighting/intrinsically safe equipment.              |
| P242 | Use only non-sparking tools.                                                                   |
| P243 | Take precautionary measures against static discharge.                                          |
| P264 | Wash all exposed external body areas thoroughly after handling.                                |
| P280 | Wear protective gloves, protective clothing, eye protection and face protection.               |

**Precautionary statement(s) Response**

|                |                                                                                                                                  |
|----------------|----------------------------------------------------------------------------------------------------------------------------------|
| P304+P340      | IF INHALED: Remove person to fresh air and keep comfortable for breathing.                                                       |
| P370+P378      | In case of fire: Use alcohol resistant foam or fine spray/water fog to extinguish.                                               |
| P305+P351+P338 | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. |
| P314           | Get medical advice/attention if you feel unwell.                                                                                 |
| P337+P313      | If eye irritation persists: Get medical advice/attention.                                                                        |
| P303+P361+P353 | IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.                              |
| P332+P313      | If skin irritation occurs: Get medical advice/attention.                                                                         |
| P362+P364      | Take off contaminated clothing and wash it before reuse.                                                                         |

**Precautionary statement(s) Storage**

|           |                                                          |
|-----------|----------------------------------------------------------|
| P403+P235 | Store in a well-ventilated place. Keep cool.             |
| P405      | Store locked up.                                         |
| P410+P403 | Protect from sunlight. Store in a well-ventilated place. |

**Precautionary statement(s) Disposal**

|      |                                                                                                                                  |
|------|----------------------------------------------------------------------------------------------------------------------------------|
| P501 | Dispose of contents/container to authorised hazardous or special waste collection point in accordance with any local regulation. |
|------|----------------------------------------------------------------------------------------------------------------------------------|

**SECTION 3 Composition / information on ingredients****Substances**

See section below for composition of Mixtures

**Mixtures**

| CAS No      | %[weight] | Name                                           |
|-------------|-----------|------------------------------------------------|
| 64742-49-0. | 1-5       | <u>naphtha petroleum, light, hydrotreated.</u> |
| 98-56-6     | 1-5       | <u>4-chlorobenzotrifluoride</u>                |
| 79-20-9     | 45-70     | <u>methyl acetate</u>                          |
| 124-38-9    | 1-5       | <u>carbon dioxide</u>                          |
| 7727-37-9.  | <1        | <u>nitrogen</u>                                |

The specific chemical identity and/or exact percentage (concentration) of composition has been withheld as a trade secret.

**SECTION 4 First-aid measures****Description of first aid measures**

|                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|--------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Eye Contact</b> | <ul style="list-style-type: none"> <li>▶ If product comes in contact with eyes remove the patient from gas source or contaminated area.</li> <li>▶ Take the patient to the nearest eye wash, shower or other source of clean water.</li> <li>▶ Open the eyelid(s) wide to allow the material to evaporate.</li> <li>▶ Gently rinse the affected eye(s) with clean, cool water for at least 15 minutes. Have the patient lie or sit down and tilt the head back. Hold the eyelid(s) open and pour water slowly over the eyeball(s) at the inner corners, letting the water run out of the outer corners.</li> <li>▶ The patient may be in great pain and wish to keep the eyes closed. It is important that the material is rinsed from the eyes to prevent further damage.</li> <li>▶ Ensure that the patient looks up, and side to side as the eye is rinsed in order to better reach all parts of the eye(s)</li> <li>▶ Transport to hospital or doctor.</li> <li>▶ Even when no pain persists and vision is good, a doctor should examine the eye as delayed damage may occur.</li> <li>▶ If the patient cannot tolerate light, protect the eyes with a clean, loosely tied bandage.</li> <li>▶ Ensure verbal communication and physical contact with the patient.</li> </ul> <p><b>DO NOT</b> allow the patient to rub the eyes</p> |
|--------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

Continued...

|                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|---------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                     | <p><b>DO NOT</b> allow the patient to tightly shut the eyes</p> <p><b>DO NOT</b> introduce oil or ointment into the eye(s) without medical advice</p> <p><b>DO NOT</b> use hot or tepid water.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Skin Contact</b> | <p>If skin contact occurs:</p> <ul style="list-style-type: none"> <li>▶ Immediately remove all contaminated clothing, including footwear.</li> <li>▶ Flush skin and hair with running water (and soap if available).</li> <li>▶ Seek medical attention in event of irritation.</li> </ul> <p>In case of cold burns (frost-bite):</p> <ul style="list-style-type: none"> <li>▶ Move casualty into warmth before thawing the affected part; if feet are affected carry if possible</li> <li>▶ Bathe the affected area immediately in luke-warm water (not more than 35 deg C) for 10 to 15 minutes, immersing if possible and without rubbing</li> <li>▶ <b>DO NOT</b> apply hot water or radiant heat.</li> <li>▶ Apply a clean, dry, light dressing of 'fluffed-up' dry gauze bandage</li> <li>▶ If a limb is involved, raise and support this to reduce swelling</li> <li>▶ If an adult is involved and where intense pain occurs provide pain killers such as paracetamol</li> <li>▶ Transport to hospital, or doctor</li> <li>▶ Subsequent blackening of the exposed tissue indicates potential of necrosis, which may require amputation.</li> </ul>                                                                   |
| <b>Inhalation</b>   | <ul style="list-style-type: none"> <li>▶ Following exposure to gas, remove the patient from the gas source or contaminated area.</li> <li>▶ NOTE: Personal Protective Equipment (PPE), including positive pressure self-contained breathing apparatus may be required to assure the safety of the rescuer.</li> <li>▶ Prostheses such as false teeth, which may block the airway, should be removed, where possible, prior to initiating first aid procedures.</li> <li>▶ If the patient is not breathing spontaneously, administer rescue breathing.</li> <li>▶ If the patient does not have a pulse, administer CPR.</li> <li>▶ If medical oxygen and appropriately trained personnel are available, administer 100% oxygen.</li> <li>▶ Summon an emergency ambulance. If an ambulance is not available, contact a physician, hospital, or Poison Control Centre for further instruction.</li> <li>▶ Keep the patient warm, comfortable and at rest while awaiting medical care.</li> <li>▶ <b>MONITOR THE BREATHING AND PULSE, CONTINUOUSLY.</b></li> <li>▶ Administer rescue breathing (preferably with a demand-valve resuscitator, bag-valve mask-device, or pocket mask as trained) or CPR if necessary.</li> </ul> |
| <b>Ingestion</b>    | Not considered a normal route of entry.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |

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

See Section 11

#### Indication of any immediate medical attention and special treatment needed

For frost-bite caused by liquefied petroleum gas:

- ▶ If part has not thawed, place in warm water bath (41-46 C) for 15-20 minutes, until the skin turns pink or red.
- ▶ Analgesia may be necessary while thawing.
- ▶ If there has been a massive exposure, the general body temperature must be depressed, and the patient must be immediately rewarmed by whole-body immersion, in a bath at the above temperature.
- ▶ Shock may occur during rewarming.
- ▶ Administer tetanus toxoid booster after hospitalization.
- ▶ Prophylactic antibiotics may be useful.
- ▶ The patient may require anticoagulants and oxygen.

[Shell Australia 22/12/87]

For gas exposures:

#### BASIC TREATMENT

- ▶ Establish a patent airway with suction where necessary.
- ▶ Watch for signs of respiratory insufficiency and assist ventilation as necessary.
- ▶ Administer oxygen by non-rebreather mask at 10 to 15 l/min.
- ▶ Monitor and treat, where necessary, for pulmonary oedema .
- ▶ Monitor and treat, where necessary, for shock.
- ▶ Anticipate seizures.

#### ADVANCED TREATMENT

- ▶ Consider orotracheal or nasotracheal intubation for airway control in unconscious patient or where respiratory arrest has occurred.
- ▶ Positive-pressure ventilation using a bag-valve mask might be of use.
- ▶ Monitor and treat, where necessary, for arrhythmias.
- ▶ Start an IV D5W TKO. If signs of hypovolaemia are present use lactated Ringers solution. Fluid overload might create complications.
- ▶ Drug therapy should be considered for pulmonary oedema.
- ▶ Hypotension with signs of hypovolaemia requires the cautious administration of fluids. Fluid overload might create complications.
- ▶ Treat seizures with diazepam.
- ▶ Proparacaine hydrochloride should be used to assist eye irrigation.

BRONSTEIN, A.C. and CURRANCE, P.L.

EMERGENCY CARE FOR HAZARDOUS MATERIALS EXPOSURE: 2nd Ed. 1994

## SECTION 5 Fire-fighting measures

#### Extinguishing media

**SMALL FIRE:** Use extinguishing agent suitable for type of surrounding fire.

**LARGE FIRE:** Cool cylinder.

**DO NOT** direct water at source of leak or venting safety devices as icing may occur.

#### Special hazards arising from the substrate or mixture

|                             |             |
|-----------------------------|-------------|
| <b>Fire Incompatibility</b> | None known. |
|-----------------------------|-------------|

#### Special protective equipment and precautions for fire-fighters

|                      |                                                                                                                                                                                                                                                                |
|----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Fire Fighting</b> | <p>GENERAL</p> <ul style="list-style-type: none"> <li>▶ Alert Fire Brigade and tell them location and nature of hazard.</li> <li>▶ Wear breathing apparatus and protective gloves.</li> <li>▶ Fight fire from a safe distance, with adequate cover.</li> </ul> |
|----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

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|                       |                                                                                                                                                                                                                                                                                                                                                                                               |
|-----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Fire/Explosion Hazard | <ul style="list-style-type: none"><li>Containers may explode when heated - Ruptured cylinders may rocket</li><li>Fire exposed containers may vent contents through pressure relief devices.</li><li>High concentrations of gas may cause asphyxiation without warning.</li><li>May decompose explosively when heated or involved in fire.</li></ul> Decomposition may produce toxic fumes of: |
|-----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

SECTION 6 Accidental release measures

Personal precautions, protective equipment and emergency procedures

See section 8

Environmental precautions

See section 12

Methods and material for containment and cleaning up

|              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|--------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Minor Spills | <ul style="list-style-type: none"><li>Avoid breathing vapour and any contact with liquid or gas. Protective equipment including respirator should be used.</li><li><b>DO NOT enter confined spaces where gas may have accumulated.</b></li></ul>                                                                                                                                                                                                                                                                         |
| Major Spills | <ul style="list-style-type: none"><li>Clear area of all unprotected personnel and move upwind.</li><li>Alert Emergency Authority and advise them of the location and nature of hazard.</li><li>Wear breathing apparatus and protective gloves.</li><li>Remove leaking cylinders to a safe place.</li><li>Fit vent pipes. Release pressure under safe, controlled conditions</li><li>Burn issuing gas at vent pipes.</li><li>DO NOT exert excessive pressure on valve; DO NOT attempt to operate damaged valve.</li></ul> |

Personal Protective Equipment advice is contained in Section 8 of the SDS.

SECTION 7 Handling and storage

Precautions for safe handling

|                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|-------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Safe handling     | <ul style="list-style-type: none"><li>Consider use in closed pressurised systems, fitted with temperature, pressure and safety relief valves which are vented for safe dispersal. Use only properly specified equipment which is suitable for this product, its supply pressure and temperature</li><li>The tubing network design connecting gas cylinders to the delivery system should include appropriate pressure indicators and vacuum or suction lines.</li><li>Fully-welded types of pressure gauges, where the bourdon tube sensing element is welded to the gauge body, are recommended.<ul style="list-style-type: none"><li><b>DO NOT transfer gas from one cylinder to another.</b></li></ul></li></ul> |
| Other information | <ul style="list-style-type: none"><li>Cylinders should be stored in a purpose-built compound with good ventilation, preferably in the open.</li><li>Such compounds should be sited and built in accordance with statutory requirements.</li><li>The storage compound should be kept clear and access restricted to authorised personnel only.</li></ul>                                                                                                                                                                                                                                                                                                                                                             |

Conditions for safe storage, including any incompatibilities

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|-------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Suitable container      | <ul style="list-style-type: none"><li>Cylinder:</li><li>Ensure the use of equipment rated for cylinder pressure.</li><li>Ensure the use of compatible materials of construction.</li><li>Valve protection cap to be in place until cylinder is secured, connected.</li></ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Storage incompatibility | <p>Carbon dioxide:</p> <ul style="list-style-type: none"><li>reacts violently with strong bases and alkali metals (especially their dusts)</li><li>may ignite or explode when heated or in suspended chemically active metals (and their hydrides) such as aluminium, chromium, manganese, magnesium (above 775 C), titanium (above 550 C), uranium (above 750 C) or zirconium , diethylmagnesium</li><li>is incompatible with water, acrolein, acrylaldehyde, amines, anhydrous ammonia, aziridine, metal acetylides (such as lithium acetylide), caesium monoxide (moist), lithium, potassium, sodium, sodium carbide, sodium-potassium alloy, sodium peroxide, titanium</li><li>may build up static electricity when discharged at high flow rates from storage cylinders or fire extinguishers - this may produce sparks resulting in ignition of flammables or explosives.</li><li>may decompose to toxic carbon monoxide and flammable oxygen when exposed to electrical discharges or very high temperatures</li><li>Compressed gases may contain a large amount of kinetic energy over and above that potentially available from the energy of reaction produced by the gas in chemical reaction with other substances</li></ul> |

SECTION 8 Exposure controls / personal protection

Control parameters

Occupational Exposure Limits (OEL)

INGREDIENT DATA

| Source                                               | Ingredient     | Material name  | TWA                   | STEL                    | Peak          | Notes         |
|------------------------------------------------------|----------------|----------------|-----------------------|-------------------------|---------------|---------------|
| US OSHA Permissible Exposure Limits (PELs) Table Z-1 | methyl acetate | Methyl acetate | 200 ppm / 610 mg/m3   | Not Available           | Not Available | Not Available |
| US NIOSH Recommended Exposure Limits (RELs)          | methyl acetate | Methyl acetate | 200 ppm / 610 mg/m3   | 760 mg/m3 / 250 ppm     | Not Available | Not Available |
| US OSHA Permissible Exposure Limits (PELs) Table Z-1 | carbon dioxide | Carbon dioxide | 5000 ppm / 9000 mg/m3 | Not Available           | Not Available | Not Available |
| US NIOSH Recommended Exposure Limits (RELs)          | carbon dioxide | Carbon dioxide | 5000 ppm / 9000 mg/m3 | 54000 mg/m3 / 30000 ppm | Not Available | Not Available |

Emergency Limits

| Ingredient                              | TEEL-1      | TEEL-2       | TEEL-3       |
|-----------------------------------------|-------------|--------------|--------------|
| naphtha petroleum, light, hydrotreated. | 1,000 mg/m3 | 11,000 mg/m3 | 66,000 mg/m3 |
| methyl acetate                          | 250 ppm     | 1,700 ppm    | 10000* ppm   |

| Ingredient                              | TEEL-1        | TEEL-2        | TEEL-3       |
|-----------------------------------------|---------------|---------------|--------------|
| nitrogen                                | 7.96E+05 ppm  | 8.32E+05 ppm  | 8.69E+05 ppm |
| Ingredient                              | Original IDLH | Revised IDLH  |              |
| naphtha petroleum, light, hydrotreated. | Not Available | Not Available |              |
| 4-chlorobenzotrifluoride                | Not Available | Not Available |              |
| methyl acetate                          | Not Available | Not Available |              |
| carbon dioxide                          | 40,000 ppm    | Not Available |              |
| nitrogen                                | Not Available | Not Available |              |

### Exposure controls

|                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Appropriate engineering controls</b>                                      | Engineering controls are used to remove a hazard or place a barrier between the worker and the hazard. Well-designed engineering controls can be highly effective in protecting workers and will typically be independent of worker interactions to provide this high level of protection. The basic types of engineering controls are:<br>Process controls which involve changing the way a job activity or process is done to reduce the risk.         |
| <b>Individual protection measures, such as personal protective equipment</b> |                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Eye and face protection</b>                                               | <ul style="list-style-type: none"> <li>▶ Chemical goggles.</li> <li>▶ Full face shield may be required for supplementary but never for primary protection of eyes.</li> <li>▶ Contact lenses may pose a special hazard; soft contact lenses may absorb and concentrate irritants.</li> </ul>                                                                                                                                                             |
| <b>Skin protection</b>                                                       | See Hand protection below                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Hands/feet protection</b>                                                 | <ul style="list-style-type: none"> <li>▶ When handling sealed and suitably insulated cylinders wear cloth or leather gloves.</li> <li>▶ Insulated gloves:</li> <li>▶ NOTE: Insulated gloves should be loose fitting so that may be removed quickly if liquid is spilled upon them. Insulated gloves are not made to permit hands to be placed in the liquid; they provide only short-term protection from accidental contact with the liquid.</li> </ul> |
| <b>Body protection</b>                                                       | See Other protection below                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Other protection</b>                                                      | <ul style="list-style-type: none"> <li>▶ Protective overalls, closely fitted at neck and wrist.</li> <li>▶ Eye-wash unit.</li> <li>▶ Ensure availability of lifeline in confined spaces.</li> </ul>                                                                                                                                                                                                                                                      |

### Respiratory protection

Type AX-P Filter of sufficient capacity. (AS/NZS 1716 & 1715, EN 143:2000 & 149:2001, ANSI Z88 or national equivalent)

- ▶ Positive pressure, full face, air-supplied breathing apparatus should be used for work in enclosed spaces if a leak is suspected or the primary containment is to be opened (e.g. for a cylinder change)
- ▶ Air-supplied breathing apparatus is required where release of gas from primary containment is either suspected or demonstrated.

## SECTION 9 Physical and chemical properties

### Information on basic physical and chemical properties

| Appearance                                            | Red               |                                                            |               |
|-------------------------------------------------------|-------------------|------------------------------------------------------------|---------------|
| <b>Physical state</b>                                 | Liquified Gas     | <b>Relative density (Water = 1)</b>                        | 0.78          |
| <b>Odour</b>                                          | Not Available     | <b>Partition coefficient n-octanol / water</b>             | Not Available |
| <b>Odour threshold</b>                                | Not Available     | <b>Auto-ignition temperature (°C)</b>                      | Not Available |
| <b>pH (as supplied)</b>                               | Not Available     | <b>Decomposition temperature (°C)</b>                      | Not Available |
| <b>Melting point / freezing point (°C)</b>            | Not Available     | <b>Viscosity (cSt)</b>                                     | Not Available |
| <b>Initial boiling point and boiling range (°C)</b>   | Not Available     | <b>Molecular weight (g/mol)</b>                            | Not Available |
| <b>Flash point (°C)</b>                               | >-13              | <b>Taste</b>                                               | Not Available |
| <b>Evaporation rate</b>                               | Not Available     | <b>Explosive properties</b>                                | Not Available |
| <b>Flammability</b>                                   | HIGHLY FLAMMABLE. | <b>Oxidising properties</b>                                | Not Available |
| <b>Upper Explosive Limit (%)</b>                      | Not Available     | <b>Surface Tension (dyn/cm or mN/m)</b>                    | Not Available |
| <b>Lower Explosive Limit (%)</b>                      | Not Available     | <b>Volatile Component (%vol)</b>                           | Not Available |
| <b>Vapour pressure (kPa)</b>                          | Not Available     | <b>Gas group</b>                                           | Not Available |
| <b>Solubility in water</b>                            | Not Available     | <b>pH as a solution (1%)</b>                               | Not Available |
| <b>Vapour density (Air = 1)</b>                       | Not Available     | <b>VOC g/L</b>                                             | 65            |
| <b>Heat of Combustion (kJ/g)</b>                      | Not Available     | <b>Ignition Distance (cm)</b>                              | Not Available |
| <b>Flame Height (cm)</b>                              | Not Available     | <b>Flame Duration (s)</b>                                  | Not Available |
| <b>Enclosed Space Ignition Time Equivalent (s/m3)</b> | Not Available     | <b>Enclosed Space Ignition Deflagration Density (g/m3)</b> | Not Available |
| <b>Nanoform Solubility</b>                            | Not Available     | <b>Nanoform Particle Characteristics</b>                   | Not Available |
| <b>Particle Size</b>                                  | Not Available     |                                                            |               |

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**SECTION 10 Stability and reactivity**

|                                           |                                                                                                                                                                                                      |
|-------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Reactivity</b>                         | See section 7                                                                                                                                                                                        |
| <b>Chemical stability</b>                 | <ul style="list-style-type: none"> <li>▶ Unstable in the presence of incompatible materials.</li> <li>▶ Product is considered stable.</li> <li>▶ Hazardous polymerisation will not occur.</li> </ul> |
| <b>Possibility of hazardous reactions</b> | See section 7                                                                                                                                                                                        |
| <b>Conditions to avoid</b>                | See section 7                                                                                                                                                                                        |
| <b>Incompatible materials</b>             | See section 7                                                                                                                                                                                        |
| <b>Hazardous decomposition products</b>   | See section 5                                                                                                                                                                                        |

**SECTION 11 Toxicological information****Information on toxicological effects**

|                                             |                                                                                                              |
|---------------------------------------------|--------------------------------------------------------------------------------------------------------------|
| <b>a) Acute Toxicity</b>                    | Based on available data, the classification criteria are not met.                                            |
| <b>b) Skin Irritation/Corrosion</b>         | There is sufficient evidence to classify this material as skin corrosive or irritating.                      |
| <b>c) Serious Eye Damage/Irritation</b>     | There is sufficient evidence to classify this material as eye damaging or irritating                         |
| <b>d) Respiratory or Skin sensitisation</b> | Based on available data, the classification criteria are not met.                                            |
| <b>e) Mutagenicity</b>                      | Based on available data, the classification criteria are not met.                                            |
| <b>f) Carcinogenicity</b>                   | Based on available data, the classification criteria are not met.                                            |
| <b>g) Reproductivity</b>                    | Based on available data, the classification criteria are not met.                                            |
| <b>h) STOT - Single Exposure</b>            | There is sufficient evidence to classify this material as toxic to specific organs through single exposure   |
| <b>i) STOT - Repeated Exposure</b>          | There is sufficient evidence to classify this material as toxic to specific organs through repeated exposure |
| <b>j) Aspiration Hazard</b>                 | Based on available data, the classification criteria are not met.                                            |

|                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|---------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Inhaled</b>      | <p>The material can cause respiratory irritation in some persons. The body's response to such irritation can cause further lung damage. Inhalation of vapours may cause drowsiness and dizziness. This may be accompanied by sleepiness, reduced alertness, loss of reflexes, lack of co-ordination, and vertigo.</p> <p>Inhalation of non-toxic gases may cause:</p> <ul style="list-style-type: none"> <li>▶ CNS effects: headache, confusion, dizziness, stupor, seizures and coma;</li> <li>▶ respiratory: shortness of breath and rapid breathing;</li> <li>▶ cardiovascular: collapse and irregular heart beats;</li> <li>▶ gastrointestinal: mucous membrane irritation, nausea and vomiting.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Ingestion</b>    | <p>Not normally a hazard due to physical form of product.</p> <p>Considered an unlikely route of entry in commercial/industrial environments</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Skin Contact</b> | <p>This material can cause inflammation of the skin on contact in some persons.</p> <p>The material may accentuate any pre-existing dermatitis condition</p> <p>Skin contact is not thought to have harmful health effects (as classified under EC Directives); the material may still produce health damage following entry through wounds, lesions or abrasions.</p> <p>Open cuts, abraded or irritated skin should not be exposed to this material</p> <p>Entry into the blood-stream, through, for example, cuts, abrasions or lesions, may produce systemic injury with harmful effects. Examine the skin prior to the use of the material and ensure that any external damage is suitably protected.</p> <p>Vapourising liquid causes rapid cooling and contact may cause cold burns, frostbite, even through normal gloves. Frozen skin tissues are painless and appear waxy and yellow. Signs and symptoms of frost-bite may include 'pins and needles', paleness followed by numbness, a hardening and stiffening of the skin, a progression of colour changes in the affected area, (first white, then mottled and blue and eventually black; on recovery, red, hot, painful and blistered).</p> |
| <b>Eye</b>          | <p>This material can cause eye irritation and damage in some persons.</p> <p>Not considered to be a risk because of the extreme volatility of the gas.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Chronic</b>      | <p>Repeated or long-term occupational exposure is likely to produce cumulative health effects involving organs or biochemical systems. Long-term exposure to respiratory irritants may result in airways disease, involving difficulty breathing and related whole-body problems.</p> <p>Harmful: danger of serious damage to health by prolonged exposure through inhalation, in contact with skin and if swallowed.</p> <p>This material can cause serious damage if one is exposed to it for long periods. It can be assumed that it contains a substance which can produce severe defects.</p> <p>Main route of exposure to the gas in the workplace is by inhalation.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |

|                                                |                                                     |                                                                  |
|------------------------------------------------|-----------------------------------------------------|------------------------------------------------------------------|
| <b>S5847-CP (all colors/sizes)</b>             | <b>TOXICITY</b>                                     | <b>IRRITATION</b>                                                |
|                                                | Not Available                                       | Not Available                                                    |
| <b>naphtha petroleum, light, hydrotreated.</b> | <b>TOXICITY</b>                                     | <b>IRRITATION</b>                                                |
|                                                | dermal (rat) LD50: 3.35 mg/kg <sup>[2]</sup>        | Not Available                                                    |
|                                                | Inhalation (Rat) LC50: 0.26 mg/L4h <sup>[2]</sup>   |                                                                  |
|                                                | Oral (Rat) LD50: 16.75 mg/kg <sup>[2]</sup>         |                                                                  |
| <b>4-chlorobenzotrifluoride</b>                | <b>TOXICITY</b>                                     | <b>IRRITATION</b>                                                |
|                                                | Inhalation (Mouse) LC50: 20000 mg/m3 <sup>[2]</sup> | Eye: no adverse effect observed (not irritating) <sup>[1]</sup>  |
|                                                | Inhalation (Rat) LC50: 22000 mg/m3 <sup>[2]</sup>   | Skin: no adverse effect observed (not irritating) <sup>[1]</sup> |
|                                                | Oral (Mouse) LD50: 11500 mg/kg <sup>[2]</sup>       |                                                                  |

Continued...

|                |                                                                                                                                                                                                                             |                                                                  |
|----------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------|
|                | Oral (Rat) LD50: 13000 mg/kg <sup>[2]</sup>                                                                                                                                                                                 |                                                                  |
| methyl acetate | <b>TOXICITY</b>                                                                                                                                                                                                             | <b>IRRITATION</b>                                                |
|                | Inhalation (Human) TCLo: 15000 mg/m3 <sup>[2]</sup>                                                                                                                                                                         | Eye (Rodent - rabbit): 100mg/24H - Moderate                      |
|                | Inhalation (Rat)LCLo: 32000 ppm/4h <sup>[2]</sup>                                                                                                                                                                           | Eye: adverse effect observed (irritating) <sup>[1]</sup>         |
|                |                                                                                                                                                                                                                             | Skin (Rodent - rabbit): 20mg/24H - Moderate                      |
|                |                                                                                                                                                                                                                             | Skin (Rodent - rabbit): 500mg/24H - Mild                         |
|                |                                                                                                                                                                                                                             | Skin: no adverse effect observed (not irritating) <sup>[1]</sup> |
| carbon dioxide | <b>TOXICITY</b>                                                                                                                                                                                                             | <b>IRRITATION</b>                                                |
|                | Not Available                                                                                                                                                                                                               | Not Available                                                    |
| nitrogen       | <b>TOXICITY</b>                                                                                                                                                                                                             | <b>IRRITATION</b>                                                |
|                | Not Available                                                                                                                                                                                                               | Not Available                                                    |
| Legend:        | 1. Value obtained from Europe ECHA Registered Substances - Acute toxicity 2. Value obtained from manufacturer's SDS. Unless otherwise specified data extracted from RTECS - Register of Toxic Effect of chemical Substances |                                                                  |

|                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|--------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| naphtha petroleum, light, hydrotreated.                | <p>Most Low Boiling Point Naphthas (LBPNs) have low acute toxicity to oral, dermal and inhalation routes of exposure, and mild to moderate skin and eye irritating effects. However, some heavier 'cracked' LBPNs (LKBPNS with greater olefinic content) have been found to be more irritating to the skin and eyes compared to non-cracked LBPNs.</p> <p>LBPNs are not known to be sensitising to the skin.</p> <p>Animal studies examined the effects of short-term and longer-term exposure to LBPNs through inhalation or oral routes. In male rats specifically, exposure to LBPNs resulted in kidney-related issues like increased kidney weight, kidney lesions, and hyaline droplet formation. Animal studies indicate that normal, branched and cyclic paraffins are absorbed from the gastrointestinal tract and that the absorption of n-paraffins is inversely proportional to the carbon chain length, with little absorption above C30. With respect to the carbon chain lengths likely to be present in mineral oil, n-paraffins may be absorbed to a greater extent than iso- or cyclo-paraffins.</p> <p>The major classes of hydrocarbons are well absorbed into the gastrointestinal tract in various species. In many cases, the hydrophobic hydrocarbons are ingested in association with fats in the diet.</p> <p>Petroleum contains aromatic (benzene, toluene, ethyl benzene, naphthalene) and aliphatic hydrocarbons (n-hexane), which can result in many detrimental health effects, including, cancer, tumour formation, hearing loss, and nervous system toxicity.</p> <p>Animal testing shows breathing in petroleum causes tumours of the liver and kidney; these are however not considered to be relevant in humans. Similarly, exposure to gasoline over a lifetime can cause kidney cancer in animals, but the relevance in humans is questionable. Most studies involving gasoline have shown that gasoline does not cause genetic mutation, including all recent studies in living human subjects (such as in petrol service station attendants).</p> <p>Animal studies show concentrations of toluene (&gt;0.1%) can cause developmental effects such as lower birth weight and developmental toxicity to the nervous system of the foetus. Other studies show no adverse effects on the foetus.</p> <p>Prolonged contact with petroleum may result in skin inflammation and make the skin more sensitive to irritation and penetration by other materials.</p> <p>The material may be irritating to the eye, with prolonged contact causing inflammation. Repeated or prolonged exposure to irritants may produce conjunctivitis.</p> |
| 4-chlorobenzotrifluoride                               | Medium to long term exposure to chlorobenzotrifluoride may produce increase in weight of the liver, kidney, and thyroid gland at high doses. Only limited reproductive effects were noted, and no gene alteration effects. There was also no evidence of definite cancer-causing effects.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| methyl acetate                                         | <p>For methyl acetate:</p> <p>Acute toxicity: Methyl acetate is a water-soluble substance with high volatility. In animal testing, the substance has narcotic properties at high concentration; this is soon reversible after exposure ends.</p> <p>Methyl acetate is absorbed via the lungs. After absorption, it is broken down to methanol and acetic acid.</p> <p>The material may produce moderate eye irritation leading to inflammation. Repeated or prolonged exposure to irritants may produce conjunctivitis.</p> <p>The material may cause skin irritation after prolonged or repeated exposure and may produce on contact skin redness, swelling, the production of vesicles, scaling and thickening of the skin.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| S5847-CP (all colors/sizes) & 4-chlorobenzotrifluoride | Asthma-like symptoms may continue for months or even years after exposure to the material ends. This may be due to a non-allergic condition known as reactive airways dysfunction syndrome (RADS) which can occur after exposure to high levels of highly irritating compound. Main criteria for diagnosing RADS include the absence of previous airways disease in a non-atopic individual, with sudden onset of persistent asthma-like symptoms within minutes to hours of a documented exposure to the irritant.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| naphtha petroleum, light, hydrotreated. & NITROGEN     | No significant acute toxicological data identified in literature search.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |

|                                   |   |                          |   |
|-----------------------------------|---|--------------------------|---|
| Acute Toxicity                    | ✗ | Carcinogenicity          | ✗ |
| Skin Irritation/Corrosion         | ✓ | Reproductivity           | ✗ |
| Serious Eye Damage/Irritation     | ✓ | STOT - Single Exposure   | ✓ |
| Respiratory or Skin sensitisation | ✗ | STOT - Repeated Exposure | ✓ |
| Mutagenicity                      | ✗ | Aspiration Hazard        | ✗ |

Legend: ✗ – Data either not available or does not fill the criteria for classification  
✓ – Data available to make classification

SECTION 12 Ecological information

|                             |               |                    |               |               |               |
|-----------------------------|---------------|--------------------|---------------|---------------|---------------|
| S5847-CP (all colors/sizes) | Endpoint      | Test Duration (hr) | Species       | Value         | Source        |
|                             | Not Available | Not Available      | Not Available | Not Available | Not Available |

|                                         |                                                                                                                                                                                                                                                                                                                          |                    |                               |               |               |
|-----------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|-------------------------------|---------------|---------------|
| naphtha petroleum, light, hydrotreated. | Endpoint                                                                                                                                                                                                                                                                                                                 | Test Duration (hr) | Species                       | Value         | Source        |
|                                         | EC50                                                                                                                                                                                                                                                                                                                     | 48h                | Crustacea                     | 0.64mg/l      | 2             |
|                                         | LC50                                                                                                                                                                                                                                                                                                                     | 96h                | Fish                          | 0.11mg/l      | 2             |
|                                         | EC50                                                                                                                                                                                                                                                                                                                     | 96h                | Algae or other aquatic plants | 64mg/l        | 2             |
|                                         | NOEC(ECx)                                                                                                                                                                                                                                                                                                                | 504h               | Crustacea                     | 0.17mg/l      | 2             |
| 4-chlorobenzotrifluoride                | Endpoint                                                                                                                                                                                                                                                                                                                 | Test Duration (hr) | Species                       | Value         | Source        |
|                                         | EC50                                                                                                                                                                                                                                                                                                                     | 48h                | Crustacea                     | 3.68mg/l      | 1             |
|                                         | EC50                                                                                                                                                                                                                                                                                                                     | 72h                | Algae or other aquatic plants | >0.41mg/l     | 2             |
|                                         | NOEC(ECx)                                                                                                                                                                                                                                                                                                                | 504h               | Crustacea                     | 0.03mg/l      | 1             |
|                                         | LC50                                                                                                                                                                                                                                                                                                                     | 96h                | Fish                          | 3mg/l         | 2             |
| methyl acetate                          | Endpoint                                                                                                                                                                                                                                                                                                                 | Test Duration (hr) | Species                       | Value         | Source        |
|                                         | EC50                                                                                                                                                                                                                                                                                                                     | 48h                | Crustacea                     | 1026.7mg/l    | 1             |
|                                         | EC50                                                                                                                                                                                                                                                                                                                     | 72h                | Algae or other aquatic plants | >120mg/l      | 1             |
|                                         | NOEC(ECx)                                                                                                                                                                                                                                                                                                                | 72h                | Algae or other aquatic plants | >=120mg/l     | 1             |
|                                         | LC50                                                                                                                                                                                                                                                                                                                     | 96h                | Fish                          | 250mg/l       | 1             |
| carbon dioxide                          | Endpoint                                                                                                                                                                                                                                                                                                                 | Test Duration (hr) | Species                       | Value         | Source        |
|                                         | LC50                                                                                                                                                                                                                                                                                                                     | 96h                | Fish                          | 35mg/l        | 1             |
| nitrogen                                | Endpoint                                                                                                                                                                                                                                                                                                                 | Test Duration (hr) | Species                       | Value         | Source        |
|                                         | Not Available                                                                                                                                                                                                                                                                                                            | Not Available      | Not Available                 | Not Available | Not Available |
| Legend:                                 | Extracted from 1. IUCLID Toxicity Data 2. Europe ECHA Registered Substances - Ecotoxicological Information - Aquatic Toxicity 4. US EPA, Ecotox database - Aquatic Toxicity Data 5. ECETOC Aquatic Hazard Assessment Data 6. NITE (Japan) - Bioconcentration Data 7. METI (Japan) - Bioconcentration Data 8. Vendor Data |                    |                               |               |               |

DO NOT discharge into sewer or waterways.

Persistence and degradability

|                          |                         |                  |
|--------------------------|-------------------------|------------------|
| Ingredient               | Persistence: Water/Soil | Persistence: Air |
| 4-chlorobenzotrifluoride | HIGH                    | HIGH             |
| methyl acetate           | LOW                     | LOW              |
| carbon dioxide           | LOW                     | LOW              |

Bioaccumulative potential

|                          |                     |
|--------------------------|---------------------|
| Ingredient               | Bioaccumulation     |
| 4-chlorobenzotrifluoride | LOW (BCF = 202)     |
| methyl acetate           | LOW (LogKOW = 0.18) |
| carbon dioxide           | LOW (LogKOW = 0.83) |
| nitrogen                 | LOW (LogKOW = 0.67) |

Mobility in soil

|                          |                          |
|--------------------------|--------------------------|
| Ingredient               | Mobility                 |
| 4-chlorobenzotrifluoride | LOW (Log KOC = 1912)     |
| methyl acetate           | MEDIUM (Log KOC = 3.324) |
| carbon dioxide           | HIGH (Log KOC = 1.498)   |

Other adverse effects

No evidence of ozone depleting properties were found in the current literature.



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SECTION 13 Disposal considerations

Waste treatment methods

|                              |                                                                                                                                                                                                                |
|------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Product / Packaging disposal | <div>▶ Evaporate residue at an approved site.</div> <div>▶ Return empty containers to supplier. If containers are marked non-returnable establish means of disposal with manufacturer prior to purchase.</div> |
|------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

SECTION 14 Transport information

Labels Required

|                  |                                                                                   |
|------------------|-----------------------------------------------------------------------------------|
|                  |  |
| Marine Pollutant | NO                                                                                |

Shipping container, transport vehicle placarding, and labeling may vary from the below information. This depends on the quantity shipped, the applicability of excepted quantity requirements, limited quantity requirements, and/or special provisions according to US DOT, IATA and IMDG regulations. In case of reshipment, it is the responsibility of the shipper to determine the appropriate labels and markings in accordance with applicable transport regulations.

Land transport (DOT)

|                                    |                                                                                         |                |
|------------------------------------|-----------------------------------------------------------------------------------------|----------------|
| 14.1. UN number or ID number       | 3501                                                                                    |                |
| 14.2. UN proper shipping name      | Chemical under pressure, flammable, n.o.s. (contains methyl acetate and carbon dioxide) |                |
| 14.3. Transport hazard class(es)   | Class                                                                                   | 2.1            |
|                                    | Subsidiary Hazard                                                                       | Not Applicable |
| 14.4. Packing group                | Not Applicable                                                                          |                |
| 14.5. Environmental hazard         | Not Applicable                                                                          |                |
| 14.6. Special precautions for user | Hazard Label                                                                            | 2.1            |
|                                    | Special provisions                                                                      | 362, T50, TP40 |

Air transport (ICAO-IATA / DGR)

|                                    |                                                                                           |                |
|------------------------------------|-------------------------------------------------------------------------------------------|----------------|
| 14.1. UN number                    | 3501                                                                                      |                |
| 14.2. UN proper shipping name      | Chemical under pressure, flammable, n.o.s. * (contains methyl acetate and carbon dioxide) |                |
| 14.3. Transport hazard class(es)   | ICAO/IATA Class                                                                           | 2.1            |
|                                    | ICAO / IATA Subsidiary Hazard                                                             | Not Applicable |
|                                    | ERG Code                                                                                  | 10L            |
| 14.4. Packing group                | Not Applicable                                                                            |                |
| 14.5. Environmental hazard         | Not Applicable                                                                            |                |
| 14.6. Special precautions for user | Special provisions                                                                        | A1 A187        |
|                                    | Cargo Only Packing Instructions                                                           | 218            |
|                                    | Cargo Only Maximum Qty / Pack                                                             | 75 kg          |
|                                    | Passenger and Cargo Packing Instructions                                                  | Forbidden      |
|                                    | Passenger and Cargo Maximum Qty / Pack                                                    | Forbidden      |
|                                    | Passenger and Cargo Limited Quantity Packing Instructions                                 | Forbidden      |
|                                    | Passenger and Cargo Limited Maximum Qty / Pack                                            | Forbidden      |

Sea transport (IMDG-Code / GGVSee)

|                                    |                                                                                         |                |
|------------------------------------|-----------------------------------------------------------------------------------------|----------------|
| 14.1. UN number                    | 3501                                                                                    |                |
| 14.2. UN proper shipping name      | CHEMICAL UNDER PRESSURE, FLAMMABLE, N.O.S. (contains methyl acetate and carbon dioxide) |                |
| 14.3. Transport hazard class(es)   | IMDG Class                                                                              | 2.1            |
|                                    | IMDG Subsidiary Hazard                                                                  | Not Applicable |
| 14.4. Packing group                | Not Applicable                                                                          |                |
| 14.5. Environmental hazard         | Not Applicable                                                                          |                |
| 14.6. Special precautions for user | EMS Number                                                                              | F-D , S-U      |
|                                    | Special provisions                                                                      | 274 362        |
|                                    | Limited Quantities                                                                      | 0              |

14.7. Maritime transport in bulk according to IMO instruments

14.7.1. Transport in bulk according to Annex II of MARPOL and the IBC code

Not Applicable

14.7.2. Transport in bulk in accordance with MARPOL Annex V and the IMSBC Code

| Product name                            | Group         |
|-----------------------------------------|---------------|
| naphtha petroleum, light, hydrotreated. | Not Available |
| 4-chlorobenzotrifluoride                | Not Available |
| methyl acetate                          | Not Available |
| carbon dioxide                          | Not Available |

| Product name | Group         |
|--------------|---------------|
| nitrogen     | Not Available |

14.7.3. Transport in bulk in accordance with the IGC Code

| Product name                            | Ship Type     |
|-----------------------------------------|---------------|
| naphtha petroleum, light, hydrotreated. | Not Available |
| 4-chlorobenzotrifluoride                | Not Available |
| methyl acetate                          | Not Available |
| carbon dioxide                          | Not Available |
| nitrogen                                | Not Available |

SECTION 15 Regulatory information

Safety, health and environmental regulations / legislation specific for the substance or mixture

**naphtha petroleum, light, hydrotreated. is found on the following regulatory lists**

Chemical Footprint Project - Chemicals of High Concern List

US DOE Temporary Emergency Exposure Limits (TEELs)

US Toxic Substances Control Act (TSCA) - Chemical Substance Inventory

**4-chlorobenzotrifluoride is found on the following regulatory lists**

International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs

International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs - Group 2B: Possibly carcinogenic to humans

US - California Proposition 65 - Carcinogens

US - California Proposition 65 - No Significant Risk Levels (NSRLs) for Carcinogens

US - California Safe Drinking Water and Toxic Enforcement Act of 1986 - Proposition 65 List

US Toxic Substances Control Act (TSCA) - Chemical Substance Inventory

US TSCA Section 4/12 (b) - Sunset Dates/Status

**methyl acetate is found on the following regulatory lists**

US - Massachusetts - Right To Know Listed Chemicals

US - New Jersey Right to Know - Special Health Hazard Substance List (SHHSL): Flammables

US - New Jersey Right to Know Hazardous Substances

US - Pennsylvania - Hazardous Substance List

US DOE Temporary Emergency Exposure Limits (TEELs)

US New York City Community Right-to-Know: List of Hazardous Substances

US NIOSH Recommended Exposure Limits (RELs)

US OSHA Permissible Exposure Limits (PELs) Table Z-1

US Toxic Substances Control Act (TSCA) - Chemical Substance Inventory

US TSCA Section 4/12 (b) - Sunset Dates/Status

**carbon dioxide is found on the following regulatory lists**

FEI Equine Prohibited Substances List - Controlled Medication

FEI Equine Prohibited Substances List (EPSL)

US - Massachusetts - Right To Know Listed Chemicals

US - New Jersey Right to Know Hazardous Substances

US - Pennsylvania - Hazardous Substance List

US New York City Community Right-to-Know: List of Hazardous Substances

US NIOSH Recommended Exposure Limits (RELs)

US OSHA Permissible Exposure Limits (PELs) Table Z-1

US Toxic Substances Control Act (TSCA) - Chemical Substance Inventory

**nitrogen is found on the following regulatory lists**

US - Massachusetts - Right To Know Listed Chemicals

US - New Jersey Right to Know Hazardous Substances

US - Pennsylvania - Hazardous Substance List

US DOE Temporary Emergency Exposure Limits (TEELs)

US New York City Community Right-to-Know: List of Hazardous Substances

US Toxic Substances Control Act (TSCA) - Chemical Substance Inventory



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Additional Regulatory Information

Not Applicable

Federal Regulations

Superfund Amendments and Reauthorization Act of 1986 (SARA)

| Section 311/312 hazard categories               |     |
|-------------------------------------------------|-----|
| Flammable (Gases, Aerosols, Liquids, or Solids) | Yes |
| Gas under pressure                              | Yes |
| Explosive                                       | No  |
| Self-heating                                    | No  |
| Pyrophoric (Liquid or Solid)                    | No  |
| Pyrophoric Gas                                  | No  |
| Corrosive to metal                              | No  |
| Oxidizer (Liquid, Solid or Gas)                 | No  |

|                                                              |     |
|--------------------------------------------------------------|-----|
| Organic Peroxide                                             | No  |
| Self-reactive                                                | No  |
| In contact with water emits flammable gas                    | No  |
| Combustible Dust                                             | No  |
| Carcinogenicity                                              | No  |
| Acute toxicity (any route of exposure)                       | No  |
| Reproductive toxicity                                        | No  |
| Skin Corrosion or Irritation                                 | Yes |
| Respiratory or Skin Sensitization                            | No  |
| Serious eye damage or eye irritation                         | Yes |
| Specific target organ toxicity (single or repeated exposure) | Yes |
| Aspiration Hazard                                            | No  |
| Germ cell mutagenicity                                       | No  |
| Simple Asphyxiant                                            | No  |
| Hazards Not Otherwise Classified                             | No  |

**US. EPA CERCLA Hazardous Substances and Reportable Quantities (40 CFR 302.4)**  
None Reported

**US. EPCRA Section 313 Toxic Release Inventory (TRI) (40 CFR 372)**  
None Reported

**Additional Federal Regulatory Information**  
Not Applicable

State Regulations

**US. California Proposition 65**  
 **WARNING:** This product can expose you to chemicals including **4-chlorobenzotrifluoride**, which is known to the State of California to cause cancer. For more information, go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)

**Additional State Regulatory Information**  
Not Applicable

National Inventory Status

| National Inventory                              | Status                                                                                                                                                                                                          |
|-------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Australia - AIIC / Australia Non-Industrial Use | Yes                                                                                                                                                                                                             |
| Canada - DSL                                    | Yes                                                                                                                                                                                                             |
| Canada - NDSL                                   | No (naphtha petroleum, light, hydrotreated.; 4-chlorobenzotrifluoride; methyl acetate; carbon dioxide; nitrogen)                                                                                                |
| China - IECSC                                   | Yes                                                                                                                                                                                                             |
| Europe - EINEC / ELINCS / NLP                   | Yes                                                                                                                                                                                                             |
| Japan - ENCS                                    | No (naphtha petroleum, light, hydrotreated.; nitrogen)                                                                                                                                                          |
| Korea - KECI                                    | Yes                                                                                                                                                                                                             |
| New Zealand - NZIoC                             | Yes                                                                                                                                                                                                             |
| Philippines - PICCS                             | Yes                                                                                                                                                                                                             |
| USA - TSCA                                      | All chemical substances in this product have been designated as TSCA Inventory 'Active'                                                                                                                         |
| Taiwan - TCSI                                   | Yes                                                                                                                                                                                                             |
| Mexico - INSQ                                   | No (4-chlorobenzotrifluoride)                                                                                                                                                                                   |
| Vietnam - NCI                                   | Yes                                                                                                                                                                                                             |
| Russia - FBEPH                                  | Yes                                                                                                                                                                                                             |
| Legend:                                         | <b>Yes = All CAS declared ingredients are on the inventory</b><br><b>No = One or more of the CAS listed ingredients are not on the inventory. These ingredients may be exempt or will require registration.</b> |

SECTION 16 Other information

|               |            |
|---------------|------------|
| Revision Date | 05/13/2025 |
| Initial Date  | 10/28/2023 |

**CONTACT POINT**  
\*\*PLEASE NOTE THAT TITANIUM DIOXIDE IS NOT PRESENT IN CLEAR OR NEUTRAL BASES\*\*

SDS Version Summary

| Version | Date of Update | Sections Updated                                                                                |
|---------|----------------|-------------------------------------------------------------------------------------------------|
| 3.5     | 05/13/2025     | Hazards identification - Classification, Composition / information on ingredients - Ingredients |

Other information

The SDS is a Hazard Communication tool and should be used to assist in the Risk Assessment. Many factors determine whether the reported Hazards are Risks in the workplace or other settings. Risks may be determined by reference to Exposures Scenarios.

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