

## Royston R28 Zero VOC Mastic

CHASE CORPORATION Blawnox Plant

Chemwatch: 32203-21

Version No: 2.1

Safety Data Sheet according to OSHA HazCom Standard (2024) requirements

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Print Date: 20/10/2026

S.GHS.USA.EN.E.B

### SECTION 1 IDENTIFICATION

#### Product Identifier

|                               |                             |
|-------------------------------|-----------------------------|
| Product name                  | Royston R28 Zero VOC Mastic |
| Synonyms                      | Not Available               |
| Chemical formula              | Not Applicable              |
| Other means of identification | R28ZV                       |

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

|                          |                                             |
|--------------------------|---------------------------------------------|
| Relevant identified uses | Use according to manufacturer's directions. |
|--------------------------|---------------------------------------------|

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

|                         |                                                                |
|-------------------------|----------------------------------------------------------------|
| Registered company name | CHASE CORPORATION Blawnox Plant                                |
| Address                 | 128 1st Street, Blawnox 15238-3223 PA United States of America |
| Telephone               | 1-866-932-0800                                                 |
| Fax                     | Not Available                                                  |
| Website                 | Not Available                                                  |
| Email                   | Not Available                                                  |

#### Emergency phone number

|                                     |                                   |
|-------------------------------------|-----------------------------------|
| Association / Organisation          | Chemtrec                          |
| Emergency telephone number(s)       | 1-800-424-9300 (US)               |
| Other emergency telephone number(s) | (+1)703-527-3887 (outside the US) |

### SECTION 2 HAZARD(S) IDENTIFICATION

#### Classification of the substance or mixture

|                |                                                                                                                                                                                          |
|----------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Classification | Flammable Liquids Category 3, Carcinogenicity Category 2, Hazardous to the Aquatic Environment Acute Hazard Category 2, Hazardous to the Aquatic Environment Long-Term Hazard Category 2 |
|----------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

#### Label elements

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

SIGNAL WORD

**WARNING**

#### Hazard statement(s)

|      |                                                  |
|------|--------------------------------------------------|
| H226 | Flammable liquid and vapour.                     |
| H351 | Suspected of causing cancer.                     |
| H411 | Toxic to aquatic life with long lasting effects. |

#### Hazard(s) not otherwise classified

Not Applicable

#### Precautionary statement(s) General

|      |                                                                       |
|------|-----------------------------------------------------------------------|
| P101 | If medical advice is needed, have product container or label at hand. |
| P102 | Keep out of reach of children.                                        |
| P103 | Read carefully and follow all instructions.                           |

#### Precautionary statement(s) Prevention

|      |                                         |
|------|-----------------------------------------|
| P201 | Obtain special instructions before use. |
|------|-----------------------------------------|

|             |                                                                                                |
|-------------|------------------------------------------------------------------------------------------------|
| <b>P210</b> | Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. |
| <b>P233</b> | Keep container tightly closed.                                                                 |
| <b>P280</b> | Wear protective gloves and protective clothing.                                                |
| <b>P240</b> | Ground/bond container and receiving equipment.                                                 |
| <b>P241</b> | Use explosion-proof electrical/ventilating/lighting/intrinsically safe equipment.              |

#### Precautionary statement(s) Response

|                       |                                                                                                     |
|-----------------------|-----------------------------------------------------------------------------------------------------|
| <b>P308+P313</b>      | IF exposed or concerned: Get medical advice/ attention.                                             |
| <b>P370+P378</b>      | In case of fire: Use alcohol resistant foam or normal protein foam to extinguish.                   |
| <b>P391</b>           | Collect spillage.                                                                                   |
| <b>P303+P361+P353</b> | IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. |

#### Precautionary statement(s) Storage

|                  |                                              |
|------------------|----------------------------------------------|
| <b>P403+P235</b> | Store in a well-ventilated place. Keep cool. |
| <b>P405</b>      | Store locked up.                             |

#### Precautionary statement(s) Disposal

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

No further product hazard information.

## SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

### Substances

See section below for composition of Mixtures

### Mixtures

| CAS No        | %[weight] | Name                                                            |
|---------------|-----------|-----------------------------------------------------------------|
| 98-56-6       | 40-<50    | <a href="#">4-chlorobenzotrifluoride</a>                        |
| Not Available | 40-<50    | ingredients, proprietary                                        |
| 64742-04-7    | 1-10      | <a href="#">paraffinic distillate, heavy, solvent-extracted</a> |
| Not Available | Balance   | Ingredients determined not to be hazardous                      |

## SECTION 4 FIRST-AID MEASURES

### Description of first aid measures

|                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|---------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Eye Contact</b>  | <p>If this product comes in contact with the eyes:</p> <ul style="list-style-type: none"> <li>Wash out immediately with fresh running water.</li> <li>Ensure complete irrigation of the eye by keeping eyelids apart and away from eye and moving the eyelids by occasionally lifting the upper and lower lids.</li> <li>Seek medical attention without delay; if pain persists or recurs seek medical attention.</li> <li>Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.</li> </ul>                                        |
| <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>                                                                                                                                                                                                                                                                                        |
| <b>Inhalation</b>   | <ul style="list-style-type: none"> <li>If fumes, aerosols or combustion products are inhaled remove from contaminated area.</li> <li>Other measures are usually unnecessary.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Ingestion</b>    | <ul style="list-style-type: none"> <li><b>If swallowed do NOT induce vomiting.</b></li> <li>If vomiting occurs, lean patient forward or place on left side (head-down position, if possible) to maintain open airway and prevent aspiration.</li> <li>Observe the patient carefully.</li> <li>Never give liquid to a person showing signs of being sleepy or with reduced awareness; i.e. becoming unconscious.</li> <li>Give water to rinse out mouth, then provide liquid slowly and as much as casualty can comfortably drink.</li> <li>Seek medical advice.</li> </ul> |

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

See Section 11

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

Treat symptomatically.

## SECTION 5 FIRE-FIGHTING MEASURES

### Extinguishing media

- Foam.
- Dry chemical powder.
- BCF (where regulations permit).
- Carbon dioxide.
- Water spray or fog - Large fires only.

### Special hazards arising from the substance or mixture

|                             |                                                                                                                                                                                            |
|-----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Fire Incompatibility</b> | <ul style="list-style-type: none"> <li>• Avoid contamination with oxidising agents i.e. nitrates, oxidising acids, chlorine bleaches, pool chlorine etc. as ignition may result</li> </ul> |
|-----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

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

|                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Fire Fighting</b>         | <ul style="list-style-type: none"> <li>• Alert Fire Brigade and tell them location and nature of hazard.</li> <li>• May be violently or explosively reactive.</li> <li>• Wear breathing apparatus plus protective gloves.</li> <li>• Prevent, by any means available, spillage from entering drains or water course.</li> <li>• If safe, switch off electrical equipment until vapour fire hazard removed.</li> <li>• Use water delivered as a fine spray to control fire and cool adjacent area.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Fire/Explosion Hazard</b> | <ul style="list-style-type: none"> <li>• Liquid and vapour are flammable.</li> <li>• Moderate fire hazard when exposed to heat or flame.</li> <li>• Vapour forms an explosive mixture with air.</li> <li>• Moderate explosion hazard when exposed to heat or flame.</li> <li>• Vapour may travel a considerable distance to source of ignition.</li> <li>• Heating may cause expansion or decomposition leading to violent rupture of containers.</li> </ul> <p>Combustion products include:</p> <ul style="list-style-type: none"> <li>• carbon dioxide (CO<sub>2</sub>)</li> <li>• carbon monoxide (CO)</li> </ul> <p>hydrogen chloride<br/>phosgene<br/>hydrogen fluoride</p> <ul style="list-style-type: none"> <li>• other pyrolysis products typical of burning organic material.</li> </ul> <p><b>CARE:</b> Water in contact with hot liquid may cause foaming and a steam explosion with wide scattering of hot oil and possible severe burns. Foaming may cause overflow of containers and may result in possible fire.</p> |

## 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

|                     |                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|---------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Minor Spills</b> | <ul style="list-style-type: none"> <li>• Remove all ignition sources.</li> <li>• Clean up all spills immediately.</li> <li>• Avoid breathing vapours and contact with skin and eyes.</li> <li>• Control personal contact with the substance, by using protective equipment.</li> <li>• Contain and absorb small quantities with vermiculite or other absorbent material.</li> <li>• Wipe up.</li> </ul>                                   |
| <b>Major Spills</b> | <ul style="list-style-type: none"> <li>• Clear area of personnel and move upwind.</li> <li>• Alert Fire Brigade and tell them location and nature of hazard.</li> <li>• May be violently or explosively reactive.</li> <li>• Wear breathing apparatus plus protective gloves.</li> <li>• Prevent, by any means available, spillage from entering drains or water course.</li> <li>• Consider evacuation (or protect in place).</li> </ul> |

#### Reference to other sections

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

## SECTION 7 HANDLING AND STORAGE

#### Precautions for safe handling

|                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|--------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Safe handling</b>     | <ul style="list-style-type: none"> <li>• Containers, even those that have been emptied, may contain explosive vapours.</li> <li>• Do NOT cut, drill, grind, weld or perform similar operations on or near containers.</li> <li>• <b>DO NOT allow clothing wet with material to stay in contact with skin</b></li> <li>• Avoid skin contact, including inhalation.</li> <li>• Wear protective clothing when risk of overexposure occurs.</li> <li>• Use in a well-ventilated area.</li> <li>• Prevent concentration in hollows and sumps.</li> <li>• <b>DO NOT enter confined spaces until atmosphere has been checked.</b></li> <li>• Avoid smoking, naked lights or ignition sources.</li> </ul>                                                                                                                                          |
| <b>Other information</b> | <ul style="list-style-type: none"> <li>• Store in original containers in approved flammable liquid storage area.</li> <li>• Store away from incompatible materials in a cool, dry, well-ventilated area.</li> <li>• <b>DO NOT store in pits, depressions, basements or areas where vapours may be trapped.</b></li> <li>• No smoking, naked lights, heat or ignition sources.</li> <li>• Storage areas should be clearly identified, well illuminated, clear of obstruction and accessible only to trained and authorised personnel - adequate security must be provided so that unauthorised personnel do not have access.</li> <li>• Store according to applicable regulations for flammable materials for storage tanks, containers, piping, buildings, rooms, cabinets, allowable quantities and minimum storage distances.</li> </ul> |

#### Conditions for safe storage, including any incompatibilities

|                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|---------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Suitable container</b> | <ul style="list-style-type: none"> <li>• Packing as supplied by manufacturer.</li> <li>• Plastic containers may only be used if approved for flammable liquid.</li> <li>• Check that containers are clearly labelled and free from leaks.</li> <li>• For low viscosity materials (i) : Drums and jerry cans must be of the non-removable head type. (ii) : Where a can is to be used as an inner package, the can must have a screwed enclosure.</li> <li>• For materials with a viscosity of at least 2680 cSt. (23 deg. C)</li> <li>• For manufactured product having a viscosity of at least 250 cSt. (23 deg. C)</li> <li>• Manufactured product that requires stirring before use and having a viscosity of at least 20 cSt (25 deg. C): (i) Removable head packaging; (ii) Cans with friction closures and (iii) low pressure tubes and cartridges may be used.</li> <li>• Where combination packages are used, and the inner packages are of glass, there must be sufficient inert cushioning material in contact with inner and outer packages</li> <li>• In addition, where inner packagings are glass and contain liquids of packing group I there must be sufficient inert absorbent to absorb any spillage, unless the outer packaging is a close fitting moulded plastic box and the substances are not incompatible with the plastic.</li> </ul> |
|---------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

|                         |                                                                                                                     |
|-------------------------|---------------------------------------------------------------------------------------------------------------------|
| Storage incompatibility | <ul style="list-style-type: none"> <li>Avoid strong bases.</li> <li>Avoid reaction with oxidising agents</li> </ul> |
|-------------------------|---------------------------------------------------------------------------------------------------------------------|

## SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

### Control parameters

#### OCCUPATIONAL EXPOSURE LIMITS (OEL)

#### INGREDIENT DATA

Not Available

#### EMERGENCY LIMITS

| Ingredient                  | TEEL-1        | TEEL-2        | TEEL-3        |
|-----------------------------|---------------|---------------|---------------|
| Royston R28 Zero VOC Mastic | Not Available | Not Available | Not Available |

### Exposure controls

|                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|-----------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Appropriate engineering controls                                      | <p>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:</p> <p>Process controls which involve changing the way a job activity or process is done to reduce the risk.</p> <p>Enclosure and/or isolation of emission source which keeps a selected hazard "physically" away from the worker and ventilation that strategically "adds" and "removes" air in the work environment. Ventilation can remove or dilute an air contaminant if designed properly. The design of a ventilation system must match the particular process and chemical or contaminant in use.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Individual protection measures, such as personal protective equipment |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Eye and face protection                                               | <ul style="list-style-type: none"> <li>Safety glasses with side shields.</li> <li>Chemical goggles.[AS/NZS 1337.1, EN166 or national equivalent]</li> <li>Contact lenses may pose a special hazard; soft contact lenses may absorb and concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task. This should include a review of lens absorption and adsorption for the class of chemicals in use and an account of injury experience.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Skin protection                                                       | See Hand protection below                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Hands/feet protection                                                 | <ul style="list-style-type: none"> <li>Wear chemical protective gloves, e.g. PVC.</li> <li>Wear safety footwear or safety gumboots, e.g. Rubber</li> </ul> <p>The selection of suitable gloves does not only depend on the material, but also on further marks of quality which vary from manufacturer to manufacturer. Where the chemical is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.</p> <p>The exact break through time for substances has to be obtained from the manufacturer of the protective gloves and has to be observed when making a final choice.</p> <p>Personal hygiene is a key element of effective hand care. Gloves must only be worn on clean hands. After using gloves, hands should be washed and dried thoroughly.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Body protection                                                       | See Other protection below                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Other protection                                                      | <ul style="list-style-type: none"> <li>Employees working with confirmed human carcinogens should be provided with, and be required to wear, clean, full body protective clothing (smocks, coveralls, or long-sleeved shirt and pants), shoe covers and gloves prior to entering the regulated area. [AS/NZS ISO 6529:2006 or national equivalent]</li> <li>Employees engaged in handling operations involving carcinogens should be provided with, and required to wear and use half-face filter-type respirators with filters for dusts, mists and fumes, or air purifying canisters or cartridges. A respirator affording higher levels of protection may be substituted. [AS/NZS 1715 or national equivalent]</li> <li>Emergency deluge showers and eyewash fountains, supplied with potable water, should be located near, within sight of, and on the same level with locations where direct exposure is likely.</li> <li>Prior to each exit from an area containing confirmed human carcinogens, employees should be required to remove and leave protective clothing and equipment at the point of exit and at the last exit of the day, to place used clothing and equipment in impervious containers at the point of exit for purposes of decontamination or disposal. The contents of such impervious containers must be identified with suitable labels. For maintenance and decontamination activities, authorized employees entering the area should be provided with and required to wear clean, impervious garments, including gloves, boots and continuous-air supplied hood.</li> <li>Prior to removing protective garments the employee should undergo decontamination and be required to shower upon removal of the garments and hood.</li> <li>Overalls.</li> <li>PVC Apron.</li> <li>PVC protective suit may be required if exposure severe.</li> <li>Eyewash unit.</li> <li>Ensure there is ready access to a safety shower.</li> <li>Some plastic personal protective equipment (PPE) (e.g. gloves, aprons, overshoes) are not recommended as they may produce static electricity.</li> <li>For large scale or continuous use wear tight-weave non-static clothing (no metallic fasteners, cuffs or pockets).</li> <li>Non sparking safety or conductive footwear should be considered. Conductive footwear describes a boot or shoe with a sole made from a conductive compound chemically bound to the bottom components, for permanent control to electrically ground the foot and shall dissipate static electricity from the body to reduce the possibility of ignition of volatile compounds. Electrical resistance must range between 0 to 500,000 ohms. Conductive shoes should be stored in lockers close to the room in which they are worn.</li> </ul> |

### Respiratory protection

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

- Cartridge respirators should never be used for emergency ingress or in areas of unknown vapour concentrations or oxygen content.
- The wearer must be warned to leave the contaminated area immediately on detecting any odours through the respirator. The odour may indicate that the mask is not functioning properly, that the vapour concentration is too high, or that the mask is not properly fitted. Because of these limitations, only restricted use of cartridge respirators is considered appropriate.
- Cartridge performance is affected by humidity. Cartridges should be changed after 2 hr of continuous use unless it is determined that the humidity is less than 75%, in which case, cartridges can be used for 4 hr. Used cartridges should be discarded daily, regardless of the length of time used

## SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

## Information on basic physical and chemical properties

|                                                                  |                                                         |                                                                       |                |
|------------------------------------------------------------------|---------------------------------------------------------|-----------------------------------------------------------------------|----------------|
| <b>Appearance</b>                                                | Black highly flammable liquid with aromatic like odour. |                                                                       |                |
| <b>Physical state</b>                                            | Liquid                                                  | <b>Relative density (Water = 1)</b>                                   | 1.3            |
| <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>                       | -33                                                     | <b>Viscosity (mm<sup>2</sup>/s)</b>                                   | Not Available  |
| <b>Initial boiling point and boiling range (°C)</b>              | 133.8                                                   | <b>Molecular weight (g/mol)</b>                                       | Not Applicable |
| <b>Flash point (°C)</b>                                          | 42.2                                                    | <b>Taste</b>                                                          | Not Available  |
| <b>Evaporation rate</b>                                          | Not Available                                           | <b>Explosive properties</b>                                           | Not Available  |
| <b>Flammability</b>                                              | 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>                                      | 50-<60         |
| <b>Vapour pressure (kPa)</b>                                     | 1.017                                                   | <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>Total VOC %w/w</b>                                                 | Not Available  |
| <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/m<sup>3</sup>)</b> | Not Available                                           | <b>Enclosed Space Ignition Deflagration Density (g/m<sup>3</sup>)</b> | Not Available  |
| <b>Nanoform Solubility</b>                                       | Not Available                                           | <b>Nanoform Particle Characteristics</b>                              | Not Available  |
| <b>Particle Size</b>                                             | Not Available                                           |                                                                       |                |

## 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>         | Based on available data, the classification criteria are not met.      |
| <b>c) Serious Eye Damage/Irritation</b>     | Based on available data, the classification criteria are not met.      |
| <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>                   | There is sufficient evidence to classify this material as carcinogenic |
| <b>g) Reproductivity</b>                    | Based on available data, the classification criteria are not met.      |
| <b>h) STOT - Single Exposure</b>            | Based on available data, the classification criteria are not met.      |
| <b>i) STOT - Repeated Exposure</b>          | Based on available data, the classification criteria are not met.      |
| <b>j) Aspiration Hazard</b>                 | Based on available data, the classification criteria are not met.      |

|                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Inhaled</b>   | <p>The material is not expected to produce adverse health effects or respiratory irritation following inhalation and is not classified for respiratory irritation under Regulation (EC) No 1272/2008 (CLP), as amended. Nevertheless, adverse systemic effects have been identified following exposure of animals by at least one other route. Good hygiene practice requires that exposure be kept to a minimum and that suitable control measures be implemented in an occupational setting.</p> <p>Inhalation hazard is increased at higher temperatures.</p> <p>Inhalation of quantities of liquid mist may be extremely hazardous, even lethal due to spasm, extreme irritation of larynx and bronchi, chemical pneumonitis and pulmonary oedema.</p> <p>Inhalation of oil droplets or aerosols may cause discomfort and may produce chemical inflammation of the lungs.</p> <p>Inhalation of high concentrations of gas/vapour causes lung irritation with coughing and nausea, central nervous depression with headache and dizziness, slowing of reflexes, fatigue and inco-ordination.</p> |
| <b>Ingestion</b> | <p>The material is not expected to produce harmful effects following ingestion based on the available information. However, the material may still cause adverse health effects following ingestion, particularly in individuals with pre-existing organ damage (e.g. liver or kidney impairment). Gastrointestinal discomfort may occur and may result in nausea and vomiting. In an occupational setting, ingestion of incidental quantities should be avoided, and good hygiene practices should be followed to prevent ingestion.</p> <p>Exposure may cause salivation, and increases in blood cholesterol and triglycerides. There may also be increase in weight of the liver and kidney and deposition of fat in the adrenal gland.</p>                                                                                                                                                                                                                                                                                                                                                      |

|                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|---------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Skin Contact</b> | Skin contact with the material may damage the health of the individual; systemic effects may result following absorption.<br>Open cuts, abraded or irritated skin should not be exposed to this material<br>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.<br>This material can cause inflammation of the skin on contact in some persons. |
| <b>Eye</b>          | Although the liquid is not classified as an eye irritant under Regulation (EC) No 1272/2008 (CLP), as amended, direct contact with the eye may produce transient discomfort characterised by tearing or conjunctival redness (as with windburn).                                                                                                                                                                                                                                                                                          |
| <b>Chronic</b>      | There is sufficient evidence to suggest that this material directly causes cancer in humans.<br>Substance accumulation, in the human body, may occur and may cause some concern following repeated or long-term occupational exposure.<br>4-chlorobenzotrifluoride (PCBTF) may have potential to cause cancer because of its structural similarities with two known cancer causing agents.                                                                                                                                                |

|                                                 |                                                                                                                                                                                                                             |                                                                  |
|-------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------|
| Royston R28 Zero VOC Mastic                     | TOXICITY                                                                                                                                                                                                                    | IRRITATION                                                       |
|                                                 | Not Available                                                                                                                                                                                                               | Not Available                                                    |
| 4-chlorobenzotrifluoride                        | TOXICITY                                                                                                                                                                                                                    | IRRITATION                                                       |
|                                                 | Dermal (rabbit) LD50: >2 mg/kg <sup>[2]</sup>                                                                                                                                                                               | Eye: no adverse effect observed (not irritating) <sup>[1]</sup>  |
|                                                 | Inhalation (Rat) LC50: >32.03 mg/l4h <sup>[1]</sup>                                                                                                                                                                         | Skin: no adverse effect observed (not irritating) <sup>[1]</sup> |
|                                                 | Oral (Mouse) LD50; 11500 mg/kg <sup>[2]</sup>                                                                                                                                                                               |                                                                  |
| paraffinic distillate, heavy, solvent-extracted | TOXICITY                                                                                                                                                                                                                    | IRRITATION                                                       |
|                                                 | Dermal (rabbit) LD50: >2000 mg/kg <sup>[1]</sup>                                                                                                                                                                            | Eye: no adverse effect observed (not irritating) <sup>[1]</sup>  |
|                                                 | Inhalation (Rat) LC50: >5 mg/l4h <sup>[1]</sup>                                                                                                                                                                             | Skin: no adverse effect observed (not irritating) <sup>[1]</sup> |
|                                                 | Oral (Rat) LD50: >5000 mg/kg <sup>[2]</sup>                                                                                                                                                                                 |                                                                  |
| 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 |                                                                  |

|                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|--------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>4-chlorobenzotrifluoride</b>                        | 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. Other criteria for diagnosis of RADS include a reversible airflow pattern on lung function tests, moderate to severe bronchial hyperreactivity on methacholine challenge testing, and the lack of minimal lymphocytic inflammation, without eosinophilia. RADS (or asthma) following an irritating inhalation is an infrequent disorder with rates related to the concentration of and duration of exposure to the irritating substance. On the other hand, industrial bronchitis is a disorder that occurs as a result of exposure due to high concentrations of irritating substance (often particles) and is completely reversible after exposure ceases. The disorder is characterized by difficulty breathing, cough and mucus production.<br>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. No data on its ability to cause birth defects was available.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>paraffinic distillate, heavy, solvent-extracted</b> | The materials included in the Lubricating Base Oils category are related from both process and physical-chemical perspectives; The potential toxicity of a specific distillate base oil is inversely related to the severity or extent of processing the oil has undergone, since: <ul style="list-style-type: none"> <li>• The adverse effects of these materials are associated with undesirable components, and</li> <li>• The levels of the undesirable components are inversely related to the degree of processing;</li> <li>• Distillate base oils receiving the same degree or extent of processing will have similar toxicities;</li> <li>• The potential toxicity of residual base oils is independent of the degree of processing the oil receives.</li> <li>• The reproductive and developmental toxicity of the distillate base oils is inversely related to the degree of processing.</li> </ul> Unrefined & mildly refined distillate base oils contain the highest levels of undesirable components, have the largest variation of hydrocarbon molecules and have shown the highest potential cancer-causing and mutation-causing activities. Highly and severely refined distillate base oils are produced from unrefined and mildly refined oils by removing or transforming undesirable components. In comparison to unrefined and mildly refined base oils, the highly and severely refined distillate base oils have a smaller range of hydrocarbon molecules and have demonstrated very low mammalian toxicity. Testing of residual oils for mutation-causing and cancer-causing potential has shown negative results, supporting the belief that these materials lack biologically active components or the components are largely non-bioavailable due to their molecular size.<br>Toxicity testing has consistently shown that lubricating base oils have low acute toxicities. Numerous tests have shown that a lubricating base oil s mutagenic and carcinogenic potential correlates with its 3-7 ring polycyclic aromatic compound (PAC) content, and the level of DMSO extractables (e.g. IP346 assay), both characteristics that are directly related to the degree/conditions of processing.<br>For unrefined and mildly refined distillate base oils:<br>Acute toxicity: Animal testing showed high semilethal doses of >5000 mg/kg body weight and >2 g/kg body weight for exposure by swallowing or skin contact, respectively. The same material was also reported to be moderately irritating to skin, while not being sensitizing.<br>Repeat dose toxicity: Animal testing showed that repeat dose toxicity was mild to moderate to the skin.<br>Reproductive / developmental toxicity: No studies on developmental toxicity or reproduction are available. Animal testing shows that high doses may reduce the body weight of both the mother and the foetus, and increase the rate of soft tissue malformations.<br>Genetic toxicity: These oils have been found to cause mutations.<br>Cancer-causing potential: The general conclusion that can be drawn from animal testing is that these oils may potentially cause skin cancer; however, they have not been found to be associated with an increase in tumours elsewhere in the body.<br>No significant acute toxicological data identified in literature search.<br><b>WARNING:</b> This substance has been classified by the IARC as Group 1: <b>CARCINOGENIC TO HUMANS.</b> |

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

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

## SECTION 12 ECOLOGICAL INFORMATION

### Toxicity

| Royston R28 Zero VOC Mastic                     | ENDPOINT                                                                                                                                                                                                                                                                                                                                      | TEST DURATION (HR) | SPECIES                       | VALUE         | SOURCE        |
|-------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|-------------------------------|---------------|---------------|
|                                                 | Not Available                                                                                                                                                                                                                                                                                                                                 | Not Available      | Not Available                 | Not Available | Not Available |
| 4-chlorobenzotrifluoride                        | ENDPOINT                                                                                                                                                                                                                                                                                                                                      | TEST DURATION (HR) | SPECIES                       | VALUE         | SOURCE        |
|                                                 | EC50                                                                                                                                                                                                                                                                                                                                          | 72h                | Algae or other aquatic plants | >0.41mg/l     | 2             |
|                                                 | EC50                                                                                                                                                                                                                                                                                                                                          | 48h                | Crustacea                     | 3.68mg/l      | 1             |
|                                                 | NOEC(ECx)                                                                                                                                                                                                                                                                                                                                     | 504h               | Crustacea                     | 0.03mg/l      | 1             |
|                                                 | LC50                                                                                                                                                                                                                                                                                                                                          | 96h                | Fish                          | 3mg/l         | 2             |
| paraffinic distillate, heavy, solvent-extracted | ENDPOINT                                                                                                                                                                                                                                                                                                                                      | TEST DURATION (HR) | SPECIES                       | VALUE         | SOURCE        |
|                                                 | EC50                                                                                                                                                                                                                                                                                                                                          | 48h                | Crustacea                     | 1.4mg/l       | 1             |
|                                                 | EC50                                                                                                                                                                                                                                                                                                                                          | 96h                | Algae or other aquatic plants | 3.1mg/l       | 1             |
|                                                 | NOEC(ECx)                                                                                                                                                                                                                                                                                                                                     | 72h                | Algae or other aquatic plants | >1000mg/l     | 1             |
| Legend:                                         | Extracted from 1. IUCLID Toxicity Data 2. Europe ECHA Registered Substances - Ecotoxicological Information - Aquatic Toxicity 3. US EPA, Ecotox database - Aquatic Toxicity Data 4. ECETOC Aquatic Hazard Assessment Data 5. NITE (Japan) - Bioconcentration Data 6. METI (Japan) - Bioconcentration Data 7. Vendor Data 8. User defined data |                    |                               |               |               |

Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.  
Do NOT allow product to come in contact with surface waters or to intertidal areas below the mean high water mark. Do not contaminate water when cleaning equipment or disposing of equipment wash-waters.  
Wastes resulting from use of the product must be disposed of on site or at approved waste sites.  
**DO NOT discharge into sewer or waterways.**

Persistence and degradability

| Ingredient               | Persistence: Water/Soil | Persistence: Air |
|--------------------------|-------------------------|------------------|
| 4-chlorobenzotrifluoride | HIGH                    | HIGH             |

Bioaccumulative potential

| Ingredient               | Bioaccumulation |
|--------------------------|-----------------|
| 4-chlorobenzotrifluoride | LOW (BCF = 202) |

Mobility in soil

| Ingredient               | Mobility         |
|--------------------------|------------------|
| 4-chlorobenzotrifluoride | LOW (KOC = 1912) |

Other adverse effects

One or more ingredients within this SDS has the potential of causing ozone depletion and/or photochemical ozone creation.

SECTION 13 DISPOSAL CONSIDERATIONS

Waste treatment methods

|                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Product / Packaging disposal | <ul style="list-style-type: none"><li>Containers may still present a chemical hazard/ danger when empty.</li><li>Return to supplier for reuse/ recycling if possible.</li></ul> Otherwise: <ul style="list-style-type: none"><li>If container can not be cleaned sufficiently well to ensure that residuals do not remain or if the container cannot be used to store the same product, then puncture containers, to prevent re-use, and bury at an authorised landfill.</li><li>Where possible retain label warnings and SDS and observe all notices pertaining to the product.</li><li><b>DO NOT allow wash water from cleaning or process equipment to enter drains.</b></li><li>It may be necessary to collect all wash water for treatment before disposal.</li><li>In all cases disposal to sewer may be subject to local laws and regulations and these should be considered first.</li><li>Where in doubt contact the responsible authority.</li><li>Recycle wherever possible.</li><li>Consult manufacturer for recycling options or consult local or regional waste management authority for disposal if no suitable treatment or disposal facility can be identified.</li><li>Dispose of by: burial in a land-fill specifically licensed to accept chemical and / or pharmaceutical wastes or Incineration in a licensed apparatus (after admixture with suitable combustible material).</li><li>Decontaminate empty containers. Observe all label safeguards until containers are cleaned and destroyed.</li></ul> |
|------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

SECTION 14 TRANSPORT INFORMATION

Labels Required

|                  |                                                                                     |
|------------------|-------------------------------------------------------------------------------------|
|                  |  |
| Marine Pollutant |  |

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       | 1139                                                                                                                                                 |                  |  |
| 14.2. UN proper shipping name      | Coating solution (includes surface treatments or coatings used for industrial or other purposes such as vehicle undercoating, drum or barrel lining) |                  |  |
| 14.3. Transport hazard class(es)   | Class                                                                                                                                                | 3                |  |
|                                    | Subsidiary Hazard                                                                                                                                    | Not Applicable   |  |
| 14.4. Packing group                | III                                                                                                                                                  |                  |  |
| 14.5. Environmental hazard         | Environmentally hazardous                                                                                                                            |                  |  |
| 14.6. Special precautions for user | Hazard Label                                                                                                                                         | 3                |  |
|                                    | Special provisions                                                                                                                                   | B1, IB3, T2, TP1 |  |
|                                    | Limited quantity                                                                                                                                     | 5 L              |  |

Air transport (ICAO-IATA / DGR)

|                                    |                                                                                                                                                      |                |  |
|------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|--|
| 14.1. UN number                    | 1139                                                                                                                                                 |                |  |
| 14.2. UN proper shipping name      | Coating solution (includes surface treatments or coatings used for industrial or other purposes such as vehicle undercoating, drum or barrel lining) |                |  |
| 14.3. Transport hazard class(es)   | ICAO/IATA Class                                                                                                                                      | 3              |  |
|                                    | ICAO / IATA Subsidiary Hazard                                                                                                                        | Not Applicable |  |
|                                    | ERG Code                                                                                                                                             | 3L             |  |
| 14.4. Packing group                | III                                                                                                                                                  |                |  |
| 14.5. Environmental hazard         | Environmentally hazardous                                                                                                                            |                |  |
| 14.6. Special precautions for user | Special provisions                                                                                                                                   | A3             |  |
|                                    | Cargo Only Packing Instructions                                                                                                                      | 366            |  |
|                                    | Cargo Only Maximum Qty / Pack                                                                                                                        | 220 L          |  |
|                                    | Passenger and Cargo Packing Instructions                                                                                                             | 355            |  |
|                                    | Passenger and Cargo Maximum Qty / Pack                                                                                                               | 60 L           |  |
|                                    | Passenger and Cargo Limited Quantity Packing Instructions                                                                                            | Y344           |  |
|                                    | Passenger and Cargo Limited Maximum Qty / Pack                                                                                                       | 10 L           |  |

Sea transport (IMDG-Code / GGVSee)

|                                    |                                                                                                                                                       |                |  |
|------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|--|
| 14.1. UN number                    | 1139                                                                                                                                                  |                |  |
| 14.2. UN proper shipping name      | COATING SOLUTION (includes surface treatments or coatings used for industrial or other purposes such as vehicle under-coating, drum or barrel lining) |                |  |
| 14.3. Transport hazard class(es)   | IMDG Class                                                                                                                                            | 3              |  |
|                                    | IMDG Subsidiary Hazard                                                                                                                                | Not Applicable |  |
| 14.4. Packing group                | III                                                                                                                                                   |                |  |
| 14.5. Environmental hazard         | Marine Pollutant                                                                                                                                      |                |  |
| 14.6. Special precautions for user | EMS Number                                                                                                                                            | F-E, S-E       |  |
|                                    | Special provisions                                                                                                                                    | 955            |  |
|                                    | Limited Quantities                                                                                                                                    | 5 L            |  |

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          |
|-------------------------------------------------|----------------|
| 4-chlorobenzotrifluoride                        | Not Applicable |
| paraffinic distillate, heavy, solvent-extracted | Not Applicable |

14.7.3. Transport in bulk in accordance with the IGC Code

| Product name                                    | Ship Type      |
|-------------------------------------------------|----------------|
| 4-chlorobenzotrifluoride                        | Not Applicable |
| paraffinic distillate, heavy, solvent-extracted | Not Applicable |

SECTION 15 REGULATORY INFORMATION

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

4-CHLOROBENZOTRIFLUORIDE IS FOUND ON THE FOLLOWING REGULATORY LISTS

- US TSCA Section 4/12 (b) - Sunset Dates/Status
- US Toxic Substances Control Act (TSCA) - Chemical Substance Inventory

- International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs
- US - California Proposition 65 - No Significant Risk Levels (NSRLs) for Carcinogens
- US - California Proposition 65 - Carcinogens
- International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs - Group 2B: Possibly carcinogenic to humans
- US - California Safe Drinking Water and Toxic Enforcement Act of 1986 - Proposition 65 List

**PARAFFINIC DISTILLATE, HEAVY, SOLVENT-EXTRACTED IS FOUND ON THE FOLLOWING REGULATORY LISTS**

- US - Massachusetts - Right To Know Listed Chemicals
- Chemical Footprint Project - Chemicals of High Concern List
- US Toxic Substances Control Act (TSCA) - Chemical Substance Inventory

**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                                           | No  |
| 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                                              | Yes |
| Acute toxicity (any route of exposure)                       | No  |
| Reproductive toxicity                                        | No  |
| Skin Corrosion or Irritation                                 | No  |
| Respiratory or Skin Sensitization                            | No  |
| Serious eye damage or eye irritation                         | No  |
| Specific target organ toxicity (single or repeated exposure) | No  |
| 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

**Additional Federal Regulatory Information**

Not Available

**US. EPCRA SECTION 313 TOXIC RELEASE INVENTORY (TRI) (40 CFR 372)**

None Reported

**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 Available

**National Inventory Status**

| National Inventory                              | Status                                                                            |
|-------------------------------------------------|-----------------------------------------------------------------------------------|
| Australia - AIIC / Australia Non-Industrial Use | Yes                                                                               |
| Canada - DSL                                    | Yes                                                                               |
| Canada - NDSL                                   | No<br>(4-chlorobenzotrifluoride, paraffinic distillate, heavy, solvent-extracted) |

|                                                             |                                                                                                                                                                                                                 |
|-------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| China - IECSC                                               | Yes                                                                                                                                                                                                             |
| Colombia - Colombia National Industrial Chemicals Inventory | No<br>(4-chlorobenzotrifluoride, paraffinic distillate, heavy, solvent-extracted)                                                                                                                               |
| Europe - EINEC / ELINCS / NLP                               | Yes                                                                                                                                                                                                             |
| Japan - ENCS                                                | No<br>(paraffinic distillate, heavy, solvent-extracted)                                                                                                                                                         |
| 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<br>(4-chlorobenzotrifluoride)                                                                                                                                                                                |
| Vietnam - NCI                                               | Yes                                                                                                                                                                                                             |
| Russia - FBEPH                                              | No<br>(paraffinic distillate, heavy, solvent-extracted)                                                                                                                                                         |
| UAE - Control List (Banned/Restricted Substances)           | No<br>(4-chlorobenzotrifluoride, paraffinic distillate, heavy, solvent-extracted)                                                                                                                               |
| <b>Legend:</b>                                              | <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 | 02/09/2026 |
| Initial Date  | 02/09/2026 |

SDS Version Summary

| Version | Issue Date | Sections Updated |
|---------|------------|------------------|
| 0.0     | 01/01/0001 |                  |

Other information

Classification of the preparation and its individual components has drawn on official and authoritative sources as well as independent review by the Chemwatch Classification committee using available literature references.

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. Scale of use, frequency of use and current or available engineering controls must be considered.

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