SAFETY DATA SHEET
UFR UNIVERSAL FLUX REMOVER, AEROSOL
According to the Occupational Safety and Health (Classification, Labelling and Safety Data Sheet of Hazardous Chemicals) Regulations 2013, as amended.

SECTION 1: identification of the hazardous chemical and of the supplier

Product identifier
Product name UFR UNIVERSAL FLUX REMOVER, AEROSOL
Product number MCC-UFR10A, MCC-UFR10Y

Recommended use of the substance or mixture and restrictions on use
Identified uses Cleaning agent.

Details of the supplier of the safety data sheet
Supplier MICROCARE ASIA PTE LTD
102E, Pasir Panjang Road,
Citilink, #05-06,
Singapore 118529
(65) 6271.0182
techsupport@microcare.com

Manufacturer MICROCARE LLC
595 John Downey Drive
New Britain, CT 06051
United States of America
CAGE: OATV9
Tel: +1 800-638-0125, +1 860-827-0626
techsupport@microcare.com

Emergency telephone number
Emergency telephone INFOTRAC +65 3163 5349 (SINGAPORE)
1-352-323-3500 (from anywhere in the world)

SECTION 2: Hazard identification

Classification of the substance or mixture
Classification
Physical hazards Not Classified
Health hazards Not Classified
Environmental hazards Aquatic Chronic 3 - H412

Human health Prolonged or repeated contact with skin may cause irritation, redness and dermatitis. Mild dermatitis, allergic skin rash.

Environmental The product contains a substance which is harmful to aquatic organisms and which may cause long-term adverse effects in the aquatic environment.
UFR UNIVERSAL FLUX REMOVER, AEROSOL

Physicochemical
Vapours are heavier than air and may travel along the floor and accumulate in the bottom of containers. Not considered to be a significant hazard due to the small quantities used. Gas or vapour displaces oxygen available for breathing (asphyxiant).

Label elements
Hazard statements
H412 Harmful to aquatic life with long lasting effects.

Precautionary statements
P210 Keep away from heat/ sparks/ open flames /hot surfaces – No smoking.
P211 Do not spray on an open flame or other ignition source.
P251 Pressurized container: Do not pierce or burn, even after use.
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.
P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50oC/122oF.
P501 Dispose of contents/ container in accordance with local regulations.

Supplemental label information
EUH210 Safety data sheet available on request. RCH001a For use in industrial installations only.

Supplementary precautionary statements
P273 Avoid release to the environment.
P501 Dispose of contents/ container in accordance with national regulations.

Other hazards
This product does not contain any substances classified as PBT or vPvB (persistent, bioaccumulative and toxic, or very persistent and very bioaccumulative).

SECTION 3: Composition and information of the ingredients of the hazardous chemical

Mixtures

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>trans-1-Chloro-3,3,3-trifluoropropene</td>
<td>60-100%</td>
</tr>
<tr>
<td>CAS number: 102687-65-0</td>
<td></td>
</tr>
<tr>
<td>Classification</td>
<td>Press. Gas, Liquefied - H280</td>
</tr>
<tr>
<td></td>
<td>Aquatic Chronic 3 - H412</td>
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<tr>
<td>TRANS-1,3,3,3-TETRAFLUOROPROP-1-ENE</td>
<td>10-30%</td>
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<td>CAS number: 29118-24-9</td>
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<tr>
<td>Classification</td>
<td>Press. Gas, Liquefied - H280</td>
</tr>
<tr>
<td>ETHANOL</td>
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</tr>
<tr>
<td>CAS number: 64-17-5</td>
<td></td>
</tr>
<tr>
<td>Classification</td>
<td>Flam. Liq. 2 - H225</td>
</tr>
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</table>
### UFR UNIVERSAL FLUX REMOVER, AEROSOL

<table>
<thead>
<tr>
<th>Component</th>
<th>%</th>
<th>CAS Number</th>
<th>Classification</th>
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</thead>
<tbody>
<tr>
<td><strong>Methanol</strong></td>
<td>&lt;1%</td>
<td>67-56-1</td>
<td>Flam. Liq. 2 - H225</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Acute Tox. 3 - H301</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Acute Tox. 3 - H311</td>
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<td></td>
<td>Acute Tox. 3 - H331</td>
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<td></td>
<td></td>
<td></td>
<td>Eye Irrit. 2 - H319</td>
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<td></td>
<td></td>
<td>Repr. 1B - H360</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>STOT SE 1 - H370</td>
</tr>
<tr>
<td><strong>4-Methylpentan-2-one</strong></td>
<td>&lt;1%</td>
<td>108-10-1</td>
<td>Flam. Liq. 2 - H225</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Acute Tox. 4 - H332</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Eye Irrit. 2 - H319</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>STOT SE 3 - H335</td>
</tr>
<tr>
<td><strong>Ethyl Acetate</strong></td>
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<td>141-78-6</td>
<td>Flam. Liq. 2 - H225</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Eye Irrit. 2 - H319</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>STOT SE 3 - H336</td>
</tr>
</tbody>
</table>

The full text for all hazard statements is displayed in Section 16.

**Composition comments**
The data shown are in accordance with the latest EC Directives.

### Composition

#### SECTION 4: First-aid measures

**Description of first aid measures**

**General information**
Never give anything by mouth to an unconscious person. Do not induce vomiting. Place unconscious person on the side in the recovery position and ensure breathing can take place. If breathing stops, provide artificial respiration. Consult a physician for specific advice.

**Inhalation**
Remove affected person from source of contamination. Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. When breathing is difficult, properly trained personnel may assist affected person by administering oxygen. Get medical attention.

**Ingestion**
Do not induce vomiting. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Never give anything by mouth to an unconscious person. Promptly get affected person to drink large volumes of water to dilute the swallowed chemical. Get medical attention.

**Skin contact**
Remove contaminated clothing and rinse skin thoroughly with water.
# UFR UNIVERSAL FLUX REMOVER, AEROSOL

**Eye contact**
Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 15 minutes. Consult a physician for specific advice.

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

**General information**
The severity of the symptoms described will vary dependent on the concentration and the length of exposure. Get medical attention promptly if symptoms occur after washing.

**Inhalation**
Upper respiratory irritation. Vapours are heavier than air and may travel along the floor and accumulate in the bottom of containers. Gas or vapour displaces oxygen available for breathing (asphyxiant). Une inhalation prolongée ou excessive peut irriter les voies respiratoires.

**Ingestion**
May cause stomach pain or vomiting. Diarrhoea. May cause nausea, headache, dizziness and intoxication. Fumes from the stomach contents may be inhaled, resulting in the same symptoms as inhalation.

**Skin contact**
Skin irritation. This product is rapidly absorbed through the skin and may cause symptoms similar to those of ingestion.

**Eye contact**
Irritating to eyes. Symptoms following overexposure may include the following: Redness. Pain. May cause blurred vision and serious eye damage.

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

**Notes for the doctor**
No specific recommendations. If in doubt, get medical attention promptly.

## SECTION 5: Fire-fighting measures

**Extinguishing media**
The product is not flammable. Use fire-extinguishing media suitable for the surrounding fire.

**Special hazards arising from the substance or mixture**

**Specific hazards**
Keep away from heat, sparks and open flame. Thermal decomposition or combustion products may include the following substances: Toxic and corrosive gases or vapours. Aerosol containers can explode when heated, due to excessive pressure build-up.

**Hazardous combustion products**
Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours. Oxides of carbon. Fire or high temperatures create: Carbonyl compounds. Mineral acids.

**Advice for fire-fighters**
Move containers from fire area if it can be done without risk. Bursting aerosol containers may be propelled from a fire at high speed.

**Special protective equipment for firefighters**
Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing.

## SECTION 6: Accidental release measures

**Personal precautions, protective equipment and emergency procedures**

**Personal precautions**
Warn everybody of potential hazards and evacuate if necessary. Provide adequate ventilation. Avoid inhalation of vapours. Use approved respirator if air contamination is above an acceptable level.

**Environmental precautions**
Contain spillage with sand, earth or other suitable non-combustible material. Avoid release to the environment.

**Methods and material for containment and cleaning up**
UFR UNIVERSAL FLUX REMOVER, AEROSOL

Methods for cleaning up

Provide adequate ventilation. Contain spillage with sand, earth or other suitable non-combustible material. Avoid the spillage or runoff entering drains, sewers or watercourses. Wear suitable protective equipment, including gloves, goggles/face shield, respirator, boots, clothing or apron, as appropriate. Eliminate all sources of ignition. No smoking, sparks, flames or other sources of ignition near spillage. Provide adequate ventilation. Absorb spillage with non-combustible, absorbent material. Collect and place in suitable waste disposal containers and seal securely.

Reference to other sections

Reference to other sections

For personal protection, see Section 8. For waste disposal, see section 13.

SECTION 7: Handling and storage

Precautions for safe handling

Usage precautions

Provide adequate ventilation. Avoid inhalation of vapours/spray and contact with skin and eyes. Keep away from heat, sparks and open flame. Thermal decomposition or combustion products may include the following substances: Toxic and corrosive gases or vapours. Keep out of the reach of children.

Conditions for safe storage, including any incompatibilities

Storage precautions

Aerosol cans: Must not be exposed to direct sunlight or temperatures above 50°C.

Specific end use(s)

Specific end use(s)

The identified uses for this product are detailed in Section 1.

Reference to other sections

Store away from incompatible materials (see Section 10).

SECTION 8: Exposure controls and personal protection

Control parameters

Occupational exposure limits

ETHANOL

Eight-hour time-weighted average: PEL 1000 ppm 1880 mg/m³

METHANOL

Eight-hour time-weighted average: PEL 200 ppm 262 mg/m³

skin

4-Methylpentan-2-one

Eight-hour time-weighted average: PEL 50 ppm 205 mg/m³

Ethyl acetate

Eight-hour time-weighted average: PEL 400 ppm 1440 mg/m³

Permissible exposure limit (PEL) skin = Refers to the potential contribution to the overall exposure by the cutaneous route including mucous membranes and eye, either by air-borne or more particularly, by direct contact with the substance.

trans-1-Chloro-3,3,3-trifluoropropene (CAS: 102687-65-0)

Ingredient comments

No exposure limits known for ingredient(s).

Exposure controls

Protective equipment

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**UFR UNIVERSAL FLUX REMOVER, AEROSOL**

**Appropriate engineering controls**
No specific ventilation requirements. This product must not be handled in a confined space without adequate ventilation.

**Eye/face protection**
Eyewear complying with an approved standard should be worn if a risk assessment indicates eye contact is possible. Unless the assessment indicates a higher degree of protection is required, the following protection should be worn: Tight-fitting safety glasses.

**Hand protection**
Chemical-resistant, impervious gloves complying with an approved standard should be worn if a risk assessment indicates skin contact is possible. It is recommended that gloves are made of the following material: Nitrile rubber. Polyvinyl alcohol (PVA). Viton rubber (fluoro rubber).

**Other skin and body protection**
Wear suitable protective clothing as protection against splashing or contamination. Wear apron or protective clothing in case of contact.

**Hygiene measures**
No specific hygiene procedures recommended but good personal hygiene practices should always be observed when working with chemical products. When using do not eat, drink or smoke.

**Respiratory protection**
Considering the size of the packaging, the risk is regarded as minimal. Vapours are heavier than air and may travel along the floor and accumulate in the bottom of containers. In confined or poorly-ventilated spaces, a supplied-air respirator must be worn. Wear self-contained breathing apparatus with full facepiece.

### SECTION 9: Physical and chemical properties

<table>
<thead>
<tr>
<th>Information on basic physical and chemical properties</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
</tr>
<tr>
<td>Colour</td>
</tr>
<tr>
<td>Odour</td>
</tr>
<tr>
<td>Odour threshold</td>
</tr>
<tr>
<td>pH</td>
</tr>
<tr>
<td>Melting point</td>
</tr>
<tr>
<td>Initial boiling point and range</td>
</tr>
<tr>
<td>Flash point</td>
</tr>
<tr>
<td>Evaporation rate</td>
</tr>
<tr>
<td>Evaporation factor</td>
</tr>
<tr>
<td>Upper/lower flammability or explosive limits</td>
</tr>
<tr>
<td>Other flammability</td>
</tr>
<tr>
<td>Vapour pressure</td>
</tr>
<tr>
<td>Vapour density</td>
</tr>
<tr>
<td>Relative density</td>
</tr>
<tr>
<td>Bulk density</td>
</tr>
<tr>
<td>Solubility(ies)</td>
</tr>
<tr>
<td>Partition coefficient</td>
</tr>
<tr>
<td>Auto-ignition temperature</td>
</tr>
<tr>
<td>Decomposition temperature</td>
</tr>
</tbody>
</table>
UFR UNIVERSAL FLUX REMOVER, AEROSOL

Viscosity
No information available.

Global Warming Potential (GWP)

Surface tension

Refractive index
No information available.

Particle size
No information available.

Molecular weight
No information available.

V doitility
100%

Saturation concentration
No information available.

Critical temperature
No information available.

Volatile organic compound
This product contains a maximum VOC content of 59 g/litre.

Heat of vaporization (at boiling point), cal/g (Btu/lb)

SECTION 10: Stability and reactivity

Reactivity
There are no known reactivity hazards associated with this product.

Stability
Stable at normal ambient temperatures and when used as recommended.

Possibility of hazardous reactions
Will not polymerise.

Conditions to avoid
Keep away from heat, sparks and open flame. Thermal decomposition or combustion products may include the following substances: Toxic and corrosive gases or vapours.

Materials to avoid
Alkali metals. Alkaline earth metals.

Hazardous decomposition products
Heating may generate the following products: Toxic and corrosive gases or vapours. Halogenated hydrocarbons. Hydrogen fluoride (HF). Carbon dioxide (CO2). Carbon monoxide (CO).

SECTION 11: Toxicological information

Information on toxicological effects
There is no evidence that the product can cause cancer.

Acute toxicity - oral
ATE oral (mg/kg) 50,384.18

Acute toxicity - dermal
ATE dermal (mg/kg) 151,152.54

Acute toxicity - inhalation
ATE Inhalation (vapours mg/l) 1,511.53
ATE Inhalation (dusts/mists mg/l) 251.92
UFR UNIVERSAL FLUX REMOVER, AEROSOL

Inhalation
Vapours may irritate throat/respiratory system. A single exposure may cause the following adverse effects: Coughing. Difficulty in breathing.

Ingestion
May cause stomach pain or vomiting. May cause nausea, headache, dizziness and intoxication.

Skin contact
Product has a defatting effect on skin. May cause allergic contact eczema.

Eye contact
May cause temporary eye irritation.

Medical symptoms
Gas or vapour in high concentrations may irritate the respiratory system. Symptoms following overexposure may include the following: Headache. Fatigue. Nausea, vomiting.

Toxicological information on ingredients

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>Acute toxicity - oral</th>
<th>Acute toxicity - dermal</th>
<th>Acute toxicity - inhalation</th>
</tr>
</thead>
<tbody>
<tr>
<td>trans-1-Chloro-3,3,3-trifluoropropene</td>
<td>Notes (oral LD₅₀)</td>
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<tr>
<td></td>
<td>Acute toxicity - dermal</td>
<td>No information required.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Acute toxicity - inhalation</td>
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</tr>
<tr>
<td></td>
<td>Acute toxicity inhalation (LC₅₀ gases ppmV)</td>
<td>120,000.0</td>
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</tr>
<tr>
<td></td>
<td>Species</td>
<td>Rat</td>
<td></td>
</tr>
<tr>
<td></td>
<td>ATE inhalation (gases ppmV)</td>
<td>120,000.0</td>
<td></td>
</tr>
</tbody>
</table>

Inhalation
Vapours may irritate throat/respiratory system. A single exposure may cause the following adverse effects: Coughing. Difficulty in breathing.

Ingestion
May cause stomach pain or vomiting. May cause nausea, headache, dizziness and intoxication.

Skin contact
Product has a defatting effect on skin. May cause allergic contact eczema.

Eye contact
May cause temporary eye irritation.

Medical symptoms
Gas or vapour in high concentrations may irritate the respiratory system. Symptoms following overexposure may include the following: Headache. Fatigue. Nausea, vomiting.

TRANS-1,3,3,3-TETRAFLUOROPROP-1-ENE

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>Acute toxicity - inhalation</th>
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<tr>
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<td>Acute toxicity inhalation (LC₅₀ vapours mg/l)</td>
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<td></td>
<td>Species</td>
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<tr>
<td></td>
<td>ATE inhalation (vapours mg/l)</td>
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</table>

ETHANOL

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>Acute toxicity - inhalation</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>
UFR UNIVERSAL FLUX REMOVER, AEROSOL

Acute toxicity inhalation (LC₅₀ vapours mg/l) 20,000.0
ATE inhalation (vapours mg/l) 20,000.0

METHANOL

Acute toxicity - oral
Notes (oral LD₅₀) Acute Tox. 3 - H301 Toxic if swallowed.
ATE oral (mg/kg) 100.0

Acute toxicity - dermal
Notes (dermal LD₅₀) Acute Tox. 3 - H311 Toxic in contact with skin.
ATE dermal (mg/kg) 300.0

Acute toxicity - inhalation
Notes (inhalation LC₅₀) Acute Tox. 3 - H331 Toxic if inhaled.
ATE inhalation (vapours mg/l) 3.0
ATE inhalation (dusts/mists mg/l) 0.5

Skin corrosion/irritation
Animal data Based on available data the classification criteria are not met.

Serious eye damage/irritation
Serious eye damage/irritation Based on available data the classification criteria are not met.

Respiratory sensitization
Respiratory sensitization Based on available data the classification criteria are not met.

Skin sensitization
Skin sensitization Based on available data the classification criteria are not met.

Germ cell mutagenicity
Genotoxicity - In vitro Based on available data the classification criteria are not met.

Carcinogenicity
Carcinogenicity Based on available data the classification criteria are not met.
IARC carcinogenicity None of the ingredients are listed or exempt.

Reproductive toxicity
Reproductive toxicity - fertility Based on available data the classification criteria are not met.
Reproductive toxicity - development Based on available data the classification criteria are not met.

Specific target organ toxicity - single exposure
STOT - single exposure STOT SE 1 - H370 Causes damage to organs.
Specific target organ toxicity - repeated exposure
STOT - repeated exposure  Not classified as a specific target organ toxicant after repeated exposure.

Aspiration hazard
Aspiration hazard  Based on available data the classification criteria are not met.

General information  The severity of the symptoms described will vary dependent on the concentration and the length of exposure.

Inhalation  A single exposure may cause the following adverse effects: Drowsiness, dizziness, disorientation, vertigo. Unconsciousness. High concentrations may be fatal.

Ingestion  May cause stomach pain or vomiting. May cause severe internal injury.

Skin contact  A single exposure may cause the following adverse effects: Pain.

Eye contact  No specific symptoms known.

Route of entry  Ingestion Inhalation Skin and/or eye contact

Target organs  No specific target organs known.

Carcinogenicity
IARC carcinogenicity  IARC Group 2B  Possibly carcinogenic to humans.

SECTION 12: Ecological Information

Ecotoxicity  There are no data on the ecotoxicity of this product.

Ecological information on ingredients  

**trans-1-Chloro-3,3,3-trifluoropropene**

Ecotoxicity  The product contains a substance which is toxic to aquatic organisms and which may cause long-term adverse effects in the aquatic environment.

**METHANOL**

Ecotoxicity  Not regarded as dangerous for the environment. However, large or frequent spills may have hazardous effects on the environment.

Ecological information on ingredients  

**trans-1-Chloro-3,3,3-trifluoropropene**

Acute aquatic toxicity

Acute toxicity - fish  ,  :  , Oncorhynchus mykiss (Rainbow trout)

LC₅₀, 96 hours: 38 mg/l, Fish

Acute toxicity - aquatic invertebrates  

EC₅₀, 48 hours: 82 mg/l, Freshwater invertebrates

Acute toxicity - aquatic plants  

EC₅₀, 72 hours: 106.7 mg/l, Freshwater algae

NOEC, 72 hours: 115 mg/l, Freshwater algae

**TRANS-1,3,3,3-TETRAFLUOROPROP-1-ENE**
UFR UNIVERSAL FLUX REMOVER, AEROSOL

Acute aquatic toxicity
Acute toxicity - aquatic invertebrates  EC₅₀, 48 hours: >160 mg/l, Daphnia magna

ETHANOL

Acute aquatic toxicity
Acute toxicity - fish  LC₅₀, 96 hours: >10,000 mg/l, Fish
Acute toxicity - aquatic invertebrates  EC₅₀, 48 hours: 7,800 mg/l, Daphnia magna
Acute toxicity - aquatic plants  96 hours: 1000 mg/l, Freshwater algae

METHANOL

Toxicity  Based on available data the classification criteria are not met.
Acute aquatic toxicity
Acute toxicity - fish  LC₅₀, 96 hours: >100 mg/l, Pimephales promelas (Fat-head Minnow)
Acute toxicity - aquatic invertebrates  EC₅₀, 48 hours: >10000 mg/l, Daphnia magna

Persistence and degradability
There are no data on the degradability of this product.

Ecological information on ingredients

trans-1-Chloro-3,3,3-trifluoropropene
Persistence and degradability  The product is not readily biodegradable.

TRANS-1,3,3,3-TETRAFLUOROPROP-1-ENE
Persistence and degradability  The product is not readily biodegradable.

ETHANOL
Persistence and degradability  The product is expected to be biodegradable.

METHANOL
Persistence and degradability  The degradability of the product is not known.

Bioaccumulative potential
No data available on bioaccumulation.

Partition coefficient
No information available.

Ecological information on ingredients

trans-1-Chloro-3,3,3-trifluoropropene
UFR UNIVERSAL FLUX REMOVER, AEROSOL

Bioaccumulative potential  No data available on bioaccumulation.
Partition coefficient  Kow: 2.09

ETHANOL

Bioaccumulative potential  Bioaccumulation is unlikely.
Partition coefficient  No information available.

METHANOL

Bioaccumulative potential  No data available on bioaccumulation.
Partition coefficient  : -0.77

Mobility in soil
Mobility  The product contains volatile substances which may spread in the atmosphere.

Ecological information on ingredients

trans-1-Chloro-3,3,3-trifluoropropene

Mobility  No data available.

ETHANOL

Mobility  The product is soluble in water.

METHANOL

Mobility  No data available.

Other adverse effects
Other adverse effects  The product contains a substance which has a photochemical ozone creation potential.

Ecological information on ingredients

trans-1-Chloro-3,3,3-trifluoropropene

Other adverse effects  None known.

METHANOL

Other adverse effects  None known.

SECTION 13: Disposal information

Waste treatment methods
General information  Waste should be treated as controlled waste. Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority.
Disposal methods  Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority. Empty containers must not be punctured or incinerated because of the risk of an explosion. Aerosol containers can explode when heated, due to excessive pressure build-up. Reuse or recycle products wherever possible.

SECTION 14: Transportation information
**UFR UNIVERSAL FLUX REMOVER, AEROSOL**

<table>
<thead>
<tr>
<th>UN number</th>
<th>UN No. (Road/Rail)</th>
<th>1950</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>UN No. (IMDG)</td>
<td>1950</td>
</tr>
<tr>
<td></td>
<td>UN No. (ICAO)</td>
<td>1950</td>
</tr>
</tbody>
</table>

**UN proper shipping name**

- Proper shipping name (Road/Rail): AEROSOLS
- Proper shipping name (IMDG): AEROSOLS
- Proper shipping name (ICAO): AEROSOLS

**Transport hazard class(es)**

- Road/Rail class: 2.2
- Road/Rail classification code: 5A,5O
- Road/Rail label: 2.2
- IMDG class: 2.2
- ICAO class/division: 2.2

**Transport labels**

- [Image of a transport label]

**Packing group**

- Road/Rail packing group: None
- IMDG packing group: None
- ICAO packing group: None

**Environmental hazards**

- Environmentally hazardous substance/marine pollutant No.

**Special precautions for user**

- EmS: F-D, S-U

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**

- Not applicable.

**SECTION 15: Regulatory information**

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

**Inventories**

- US - TSCA: Yes

**SECTION 16: Other information**
Note: Lines within the margin indicate significant changes from the previous revision.

Revision date: 1/6/2021
Revision: 43
Supersedes date: 21/5/2021
SDS number: AEROSOL - UFR10A
SDS status: Approved.

Hazard statements in full:
- H225 Highly flammable liquid and vapour.
- H280 Contains gas under pressure; may explode if heated.
- H301 Toxic if swallowed.
- H311 Toxic if in contact with skin.
- H319 Causes serious eye irritation.
- H331 Toxic if inhaled.
- H332 Harmful if inhaled.
- H335 May cause respiratory irritation.
- H336 May cause drowsiness or dizziness.
- H360 May damage fertility or the unborn child.
- H370 Causes damage to organs.
- H412 Harmful to aquatic life with long lasting effects.

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty, guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.