SAFETY DATA SHEET
DST - GENERAL PURPOSE DUST REMOVER, AEROSOL

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product name: DST - GENERAL PURPOSE DUST REMOVER, AEROSOL
Product number: MCC-DST, MCC-DST36A, MCC-DSTZ, MCC-DST14A, MCC-DSTZ14, MCC-DST08A

1.2. Relevant identified uses of the substance or mixture and uses advised against

Identified uses: Cleaning agent.
Uses advised against: None.

1.3. Details of the supplier of the safety data sheet

Supplier: MICROCARE EUROPE BVBA
VEKEESTRAAT 29 B11
INDUSTRIEZONE ’T SAS
1910 KAMPENHOUT, Belgium
Phone +32.2.251.95.05
Fax +32.2.400.96.39

Manufacturer: MICROCARE CORPORATION
595 John Downey Drive
New Britain, CT 06051
United States of America
CAGE: OATV9
Tel: +1 800-638-0125, +1 860-827-0626
Fax: +1 860-827-8105
techsupport@microcare.com

1.4. Emergency telephone number

Emergency telephone: CHEMTREC UK (London) +(44)-870-8200418  +1 703-741-5970 (from anywhere in the world)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification (EC 1272/2008)
Physical hazards: Aerosol 3 - H229
Health hazards: Not Classified
Environmental hazards: Not Classified

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

Physicochemical: 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). Not considered to be a significant hazard due to the small quantities used.
DST - GENERAL PURPOSE DUST REMOVER, AEROSOL

Signal word

Warning

Hazard statements

H229 Pressurised container: may burst if heated

Precautionary statements

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P211 Do not spray on an open flame or other ignition source.
P251 Do not pierce or burn, even after use.
P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.
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

P410+P403 Protect from sunlight. Store in a well-ventilated place.

2.3. Other hazards

This product does not contain any substances classified as PBT or vPvB.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

<table>
<thead>
<tr>
<th>HFC-134a Tetrafluoroethane</th>
<th>60-100%</th>
</tr>
</thead>
<tbody>
<tr>
<td>CAS number: 811-97-2</td>
<td>EC number: 212-377-0</td>
</tr>
<tr>
<td></td>
<td>REACH registration number: 05-2114285300-58-0000</td>
</tr>
</tbody>
</table>

Classification

Press. Gas, Liquefied - H280

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.

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

Never give anything by mouth to an unconscious person. Do not induce vomiting. Place unconscious person on their side in the recovery position and ensure breathing can take place. If breathing stops, provide artificial respiration. Keep out of the reach of children.

Inhalation

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.

Ingestion

Do not induce vomiting. Rinse mouth thoroughly with water. Give plenty of water to drink. Consult a physician for specific advice.

Skin contact

Remove contaminated clothing and rinse skin thoroughly with water.

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.

4.2. 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.

Inhalation

Vapours may cause headache, fatigue, dizziness and nausea. Difficulty in breathing.
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Ingestion
Due to the physical nature of this material it is unlikely that swallowing will occur.

Skin contact
No specific symptoms known.

Eye contact
Prolonged contact may cause redness and/or tearing.

4.3. 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: Firefighting measures

5.1. Extinguishing media

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

5.2. 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. Oxides of nitrogen.

5.3. Advice for firefighters

Protective actions during firefighting
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

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions
Aerosol containers can explode when heated, due to excessive pressure build-up. 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.

6.2. Environmental precautions

Environmental precautions
Contain spillage with sand, earth or other suitable non-combustible material.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up
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.

6.4. Reference to other sections

Reference to other sections
See Section 11 for additional information on health hazards.

SECTION 7: Handling and storage

7.1. 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.

7.2. Conditions for safe storage, including any incompatibilities
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Storage precautions
Aerosol cans: Must not be exposed to direct sunlight or temperatures above 50°C.

7.3. Specific end use(s)
Specific end use(s) The identified uses for this product are detailed in Section 1.2.
Reference to other sections Store away from incompatible materials (see Section 10).

SECTION 8: Exposure Controls/personal protection

8.1. Control parameters
Occupational exposure limits
HFC-134a Tetrafluoroethane
Long-term exposure limit (8-hour TWA): WEL 1000 ppm 4240 mg/m³
WEL = Workplace Exposure Limit

Additional Occupational Exposure Limits

8.2. Exposure controls
Protective equipment
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.
Other skin and body protection
Wear suitable protective clothing as protection against splashing or contamination.
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
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

9.1. Information on basic physical and chemical properties
Appearance Liquefied gas
Colour Colourless.
Odour Slight. Ether.
Odour threshold No information available.
pH No information available.
Melting point No information available.
Initial boiling point and range -26.1°C/-15.0°F @ 1013 hPa
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**Flash point**
The product is not flammable.

**Evaporation rate**
$> 1$ (CCL4 = 1.0)

**Evaporation factor**
No information available.

**Flammability (solid, gas)**
No information available.

**Upper/lower flammability or explosive limits**
Upper flammable/explosive limit: n/a Lower flammable/explosive limit: n/a

**Other flammability**
The product is not flammable.

**Vapour pressure**
96 PSIA @ 20°C

**Vapour density**
3.6 @ 25°C / 77°F

**Relative density**
1.21 g/cm3 at 25°C (77°F) (as liquid)

**Bulk density**
Not applicable.

**Solubility(ies)**
Slightly soluble in water.

**Partition coefficient**
No information available.

**Auto-ignition temperature**
No information available.

**Decomposition Temperature**
No information available.

**Viscosity**
No information available.

**Explosive properties**
No information available.

**Comments**
Aerosol

**9.2. Other information**

**Refractive index**
Not determined.

**Particle size**
Not applicable.

**Molecular weight**
No information available.

**Volatility**
100%

**Saturation concentration**
No information available.

**Critical temperature**
No information available.

**Volatile organic compound**
Not applicable.

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**SECTION 10: Stability and reactivity**

10.1. Reactivity

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

10.2. Chemical stability

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

10.3. Possibility of hazardous reactions

**Possibility of hazardous reactions**
Will not polymerise.

10.4. Conditions to avoid
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Conditions to avoid
Avoid exposing aerosol containers to high temperatures or direct sunlight. Keep away from heat, sparks and open flame. Thermal decomposition or combustion products may include the following substances: Toxic and corrosive gases or vapours.

10.5. Incompatible materials
Materials to avoid
Alkali metals. Alkaline earth metals. Powdered metal.

10.6. Hazardous decomposition products
Hazardous decomposition products

SECTION 11: Toxicological information
11.1. Information on toxicological effects
Other health effects
There is no evidence that the product can cause cancer.

Inhalation
Vapours irritate the respiratory system. May cause coughing and difficulties 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. Contact with liquid form may cause frostbite.

Eye contact
May cause temporary eye irritation.

Toxicological information on ingredients.

HFC-134a Tetrafluoroethane

Other health effects
There is no evidence that the product can cause cancer.

Acute toxicity - inhalation
Acute toxicity inhalation (LC50 gases ppmV) 567,000.0
Species Rat
ATE inhalation (gases ppm) 567,000.0

Inhalation
Vapours irritate the respiratory system. May cause coughing and difficulties in breathing.

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

Skin contact
May cause allergic contact eczema. Contact with liquid form may cause frostbite.

Eye contact
May cause temporary eye irritation.

SECTION 12: Ecological information

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

12.1. Toxicity

Ecological information on ingredients.
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HFC-134a Tetrafluoroethane

Acute toxicity - fish LC₅₀, 96 hours: 450 mg/l, Algae
Acute toxicity - aquatic invertebrates EC₅₀, 48 hours: 980 mg/l, Daphnia magna

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

12.3. Bioaccumulative potential
Bioaccumulative potential No data available on bioaccumulation.
Partition coefficient No information available.

Ecological information on ingredients.

HFC-134a Tetrafluoroethane

Partition coefficient Pow: 1.06

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

12.5. Results of PBT and vPvB assessment
Results of PBT and vPvB assessment This product does not contain any substances classified as PBT or vPvB.

12.6. Other adverse effects
Other adverse effects The product contains a substance or substances that will contribute to global warming (greenhouse effect).

SECTION 13: Disposal considerations

13.1. 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.

SECTION 14: Transport information

General As supplied, this product is consigned under the Limited Quantities provisions. Requirements for marking and labeling of package varies depending on mode of transport. If uncertain of proper markings and labeling, call MicroCare for assistance.

14.1. UN number
UN No. (IMDG) 1950
UN No. (ICAO) 1950

14.2. UN proper shipping name
Proper shipping name LIMITED QUANTITY (ADR/RID)
Proper shipping name (IMDG) UN1950 AEROSOLS, NON-FLAMMABLE, 2.2, LIMITED QUANTITY
Proper shipping name (ICAO) UN1950 AEROSOLS, NON-FLAMMABLE, 2.2, LIMITED QUANTITY
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Proper shipping name (ADN) LIMITED QUANTITY

14.3. Transport hazard class(es)
IMDG class 2.2 LIMITED QUANTITY
ICAO class/division 2.2 LIMITED QUANTITY

14.4. Packing group
ICAO packing group Not Applicable

14.5. Environmental hazards
Environmentally hazardous substance/marine pollutant No.

14.6. Special precautions for user

14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code
Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not applicable. No information required.

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture
Guidance Workplace Exposure Limits EH40. Introduction to Local Exhaust Ventilation HS(G)37.

15.2. Chemical safety assessment
No chemical safety assessment has been carried out.

SECTION 16: Other information

Revision comments NOTE: Lines within the margin indicate significant changes from the previous revision.
Revision date 14/11/2017
Revision 62
Supersedes date 06/10/2017
SDS number AEROSOL - DST
SDS status Approved.
Hazard statements in full H229 Pressurised container: may burst if heated
H280 Contains gas under pressure; may explode if heated.

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.