SAFETY DATA SHEET
DST - GENERAL PURPOSE DUST REMOVER, AEROSOL


1. Identification

Product identifier

Product name DST - GENERAL PURPOSE DUST REMOVER, AEROSOL

Product number MCC-DST, MCC-DST36A, MCC-DSTZ, MCC-DST14A, MCC-DST14Z, MCC-DST08A

Synonyms; trade names 419-500, 758OZ134

Recommended use of the chemical and restrictions on use

Application Cleaning agent.

Details of the supplier of the safety data sheet

Supplier MicroCare Corporation

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

Emergency telephone number

Emergency telephone CHEMTREC (800) 424-9300 (within the U.S.)

2. Hazard(s) identification

Classification of the substance or mixture

OSHA Regulatory Status This Product is Hazardous under the OSHA Hazard Communication Standard.

Physical hazards Press. Gas, Liquefied - H280

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

Label elements
DST - GENERAL PURPOSE DUST REMOVER, AEROSOL

Pictogram

Signal word Warning

Hazard statements H280 Contains gas under pressure; may explode if heated.

Precautionary statements P210 Keep away from heat, sparks, open flames and hot surfaces. No smoking.
P251 Pressurized container: Do not pierce or burn, even after use
P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.

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

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

3. Composition/Information on ingredients

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></td>
</tr>
</tbody>
</table>

Classification
Press. Gas, Liquefied - H280

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

Composition comments The exact percentage (concentration) of composition has been withheld as a trade secret in accordance with paragraph (i) of CFR 1900.1200 TSCA: The ingredients of this product are on the TSCA Inventory.

Composition

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 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.

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.
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Inhalation  Vapors may cause headache, fatigue, dizziness and nausea. Difficulty in breathing.
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.

Indication of immediate medical attention and special treatment needed

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

5. Fire-fighting measures

Extinguishing media

Suitable 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 vapors. 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 vapors. Oxides of carbon. Oxides of nitrogen.

Advice for firefighters

Protective actions during firefighting  Move containers from fire area if it can be done without risk.

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

6. Accidental release measures

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 vapors. Use approved respirator if air contamination is above an acceptable level.

Environmental precautions

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

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.

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

7. Handling and storage

Precautions for safe handling

Usage precautions  Provide adequate ventilation. Avoid inhalation of vapors/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 vapors. Keep out of the reach of children.

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.

Specific end uses(s)
The identified uses for this product are detailed in Section 1.

Reference to other sections.
Store away from incompatible materials (see Section 10).

8. Exposure Controls/personal protection

Control parameters

Occupational exposure limits
HFC-134a Tetrafluoroethane
Long-term exposure limit (8-hour TWA): OES 4240 mg/m³
Short-term exposure limit (15-minute): OES

Additional Occupational Exposure Limits

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
Vapors 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.

9. Physical and Chemical Properties

Information on basic physical and chemical properties

Appearance
Liquefied gas

Color
Colorless.

Odor
Slight. Ether.

Odor threshold
No information available.

pH
No information available.

Melting point
No information available.
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Initial boiling point and range -26.1°C/-15.0°F @ 1013 hPa
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 Lower flammable/explosive limit: n/a Upper flammable/explosive limit: n/a
Other flammability The product is not flammable.
Vapor pressure 96 PSIA @ 20°C
Vapor density 3.6 @ 25 C / 77 F
Relative density No information available.
Bulk density 1.21 g/cm3 @ 25 C (77 F)
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.
Refractive index Not determined.
Particle size Not applicable.
Molecular weight No information available.
Volatile 100%
Saturation concentration No information available.
Critical temperature No information available.
Volatile organic compound Not applicable.

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 polymerize.
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 vapors.
Materials to avoid Alkali metals. Alkaline earth metals. Powdered metal.
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Hazardous decomposition products

11. Toxicological information

Information on toxicological effects

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

Inhalation
Vapors 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.

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 |

12. Ecological Information

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

HFC-134a Tetrafluoroethane

Acute toxicity - fish
LC₅₀, 96 hours: 450 mg/l, Fish

Acute toxicity - aquatic invertebrates
EC₅₀, 48 hours: 980 mg/l, Daphnia magna

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

Bioaccumulative potential
No data available on bioaccumulation.

Partition coefficient
No information available.

HFC-134a Tetrafluoroethane

Partition coefficient
Pow: 1.06

Mobility in soil
The product contains volatile substances which may spread in the atmosphere.
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Other adverse effects
The product contains a substance or substances that will contribute to global warming (greenhouse effect).

13. Disposal considerations

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.

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.

UN Number
UN No. (TDG) UN3159
UN No. (IMDG) UN3159
UN No. (ICAO) UN3159
UN No. (DOT) UN3159

UN proper shipping name
Proper shipping name (TDG) UN3159, 1,1,1,2-TETRAFLUOROETHANE, 2.2
Proper shipping name (IMDG) UN3159, 1,1,1,2-TETRAFLUOROETHANE, 2.2
Proper shipping name (ICAO) UN3159, 1,1,1,2-TETRAFLUOROETHANE, 2.2
Proper shipping name (DOT) UN3159, 1,1,1,2-TETRAFLUOROETHANE, 2.2

Transport hazard class(es)
TDG class 2.2
ICAO class/division 2.2

Packing group
ICAO packing group Not Applicable

Environmental hazards

Environmentally Hazardous Substance
No.

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

15. Regulatory information

US Federal Regulations
SARA Section 302 Extremely Hazardous Substances Tier II Threshold Planning Quantities
Not listed.
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CERCLA/Superfund, Hazardous Substances/Reportable Quantities (EPA)
Not listed.

SARA Extremely Hazardous Substances EPCRA Reportable Quantities
Not listed.

SARA 313 Emission Reporting
Not listed.

CAA Accidental Release Prevention
Not listed.

SARA (311/312) Hazard Categories
Pressure

OSHA Highly Hazardous Chemicals
Not listed.

US State Regulations
California Proposition 65 Carcinogens and Reproductive Toxins
Not listed.

California Air Toxics "Hot Spots" (A-I)
Not listed.

California Air Toxics "Hot Spots" (A-II)
Not listed.

California Directors List of Hazardous Substances
Not listed.

Massachusetts "Right To Know" List
Not listed.

Rhode Island "Right To Know" List
Not listed.

Minnesota "Right To Know" List
HFC-134a Tetrafluoroethane
Present.

New Jersey "Right To Know" List
Not listed.

Pennsylvania "Right To Know" List
Not listed.

Inventories
Canada - DSL/NDSL
Yes

US - TSCA
HFC-134a Tetrafluoroethane
Present.
16. Other information

<table>
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<tr>
<th>Revision comments</th>
<th>NOTE: Lines within the margin indicate significant changes from the previous revision.</th>
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<td>44</td>
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<td>Supersedes date</td>
<td>10/21/2016</td>
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<td>SDS No.</td>
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<td>SDS status</td>
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<td>Hazard statements in full</td>
<td>H280 Contains gas under pressure; may explode if heated.</td>
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<td>NFPA - health hazard</td>
<td>Irritation, minor residual injury. (1)</td>
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<td>NFPA - flammability hazard</td>
<td>Will not burn. (0)</td>
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<td>NFPA - instability hazard</td>
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<td>NFPA - special hazard</td>
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<td>ACA HMIS Health rating.</td>
<td>Slight Hazard. (1)</td>
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<td>ACA HMIS Flammability rating.</td>
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<td>ACA HMIS Physical hazard rating.</td>
<td>Unstable if heated. (1)</td>
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<tr>
<td>ACA HMIS Personal protection rating.</td>
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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.