



## SAFETY DATA SHEET

### AIR - DST- Micro Blast, Big Blast, Dry Circuit Cleaner

According to Regulation (EC) No 1907/2006

#### 1 IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

|                     |  |                     |   |
|---------------------|--|---------------------|---|
| <b>PRODUCT NAME</b> | AIR - DST- Micro Blast, Big Blast, Dry Circuit Cleaner   |                     |   |
| <b>PRODUCT NO.</b>  | MCC-DST, MCC-DSTS, MCC-DSTZ, MCC-AIR, MCC-AIRZ   |                     |   |
| <b>SUPPLIER</b>     | MICROCARE EUROPE BVBA<br>Erasmuslaan 10<br>B-1804 Cargovil (Zemst)<br>Belgium<br>0032 2 251 95 05<br>0032 2 759 80 27<br>techsupport@microcare.com | <b>MANUFACTURER</b> | MICROCARE CORPORATION<br>595 John Downey Drive<br>New Britain, CT 06019<br>United States of America<br>CAGE: OATV9<br>+1 860-827-0626<br>+1 860-827-8105<br>techsupport@microcare.com |

#### 2 HAZARDS IDENTIFICATION

Not regarded as a health or environmental hazard under current legislation.

##### ENVIRONMENT

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

##### PHYSICAL AND CHEMICAL HAZARDS

Vapours are heavier than air and may travel along the floor and in the bottom of containers. Considering the limited amount applied during use and the size of the container, the risk of adverse effects is considered small. Gas or vapour displaces oxygen available for breathing (asphyxiant).

##### HUMAN HEALTH

Prolonged skin contact may cause redness, irritation and dry skin. Mild dermatitis, allergic skin rash.

#### 3 COMPOSITION/INFORMATION ON INGREDIENTS

| Name                       | EC No.    | CAS-No.  | Content | Classification |
|----------------------------|-----------|----------|---------|----------------|
| HFC-134a Tetrafluoroethane | 212-377-0 | 811-97-2 | 60-100% | -              |

The Full Text for all R-Phrases are Displayed in Section 16

#### 4 FIRST-AID MEASURES

##### GENERAL INFORMATION

NEVER MAKE AN UNCONSCIOUS PERSON VOMIT OR DRINK FLUIDS! Place unconscious person on the side in the recovery position and ensure breathing can take place. Perform artificial respiration if breathing has stopped. Keep out of reach of children.

##### INHALATION

Move into fresh air and keep at rest. If respiratory problems, artificial respiration/oxygen.

##### INGESTION

Do not induce vomiting. Immediately rinse mouth and drink plenty of water (200-300 ml). Consult a physician for specific advice.

##### SKIN CONTACT

Remove contaminated clothes and rinse skin thoroughly with water.

##### EYE CONTACT

Promptly wash eyes with plenty of water while lifting the eye lids. Make sure to remove any contact lenses from the eyes before rinsing. Consult a physician for specific advice.

#### 5 FIRE-FIGHTING MEASURES

## AIR - DST- Micro Blast, Big Blast, Dry Circuit Cleaner

### EXTINGUISHING MEDIA

This product is not flammable. Use fire-extinguishing media appropriate for surrounding materials.

### SPECIAL FIRE FIGHTING PROCEDURES

Move container from fire area if it can be done without risk.

### UNUSUAL FIRE & EXPLOSION HAZARDS

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

### SPECIFIC HAZARDS

Avoid contact with naked flames and hot surfaces as corrosive and toxic decomposition products can be formed.

### PROTECTIVE MEASURES IN FIRE

Self contained breathing apparatus and full protective clothing must be worn in case of fire.

## 6 ACCIDENTAL RELEASE MEASURES

### PERSONAL PRECAUTIONS

Warn everybody of potential hazards and evacuate if necessary. Ventilate well, avoid breathing vapours. Use approved respirator if air contamination is above accepted level.

### ENVIRONMENTAL PRECAUTIONS

Contain spillages with sand, earth or any suitable adsorbent material. Avoid release to the environment.

### SPILL CLEAN UP METHODS

Wear necessary protective equipment. Extinguish all ignition sources. Avoid sparks, flames, heat and smoking. Ventilate.

## 7 HANDLING AND STORAGE

### USAGE PRECAUTIONS

Provide good ventilation. Avoid inhalation of vapours/spray and contact with skin and eyes. Avoid contact with naked flames and hot surfaces as corrosive and toxic decomposition products can be formed. Keep out of reach of children.

### STORAGE PRECAUTIONS

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

## 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

### PROTECTIVE EQUIPMENT



### ENGINEERING MEASURES

No specific ventilation requirements noted, except this product must not be used in a confined space without good ventilation.

### RESPIRATORY EQUIPMENT

Vapours are heavier than air and may travel along the floor and in the bottom of containers. At work in confined or poorly ventilated spaces, respiratory protection with air supply must be used. Self-contained breathing apparatus with full facepiece.

### HAND PROTECTION

For prolonged or repeated skin contact use suitable protective gloves.

### EYE PROTECTION

Wear approved, tight fitting safety glasses where splashing is probable.

### OTHER PROTECTION

Wear suitable protective clothing as protection against splashing or contamination.

### HYGIENE MEASURES

No specific hygiene procedures noted, but good personal hygiene practices are always advisable, especially when working with chemicals. When using do not eat, drink or smoke.

### SKIN PROTECTION

Wear apron or protective clothing in case of splashes.

**AIR - DST- Micro Blast, Big Blast, Dry Circuit Cleaner****9 PHYSICAL AND CHEMICAL PROPERTIES**

|                                      |                                |                                      |                   |
|--------------------------------------|--------------------------------|--------------------------------------|-------------------|
| <b>APPEARANCE</b>                    | Liquid Gas                     |                                      |                   |
| <b>COLOUR</b>                        | Colourless                     |                                      |                   |
| <b>ODOUR</b>                         | Slight odour Ether             |                                      |                   |
| <b>PHYSICAL DATA COMMENTS</b>        | Aerosol                        |                                      |                   |
| <b>VOLATILITY DESCRIPTION</b>        | Volatile.                      |                                      |                   |
| <b>SOLUBILITY</b>                    | Slightly soluble in water.     |                                      |                   |
| <b>Flammability</b>                  | This product is not flammable. |                                      |                   |
| <b>BOILING POINT (°C)</b>            | -26.5 C / -15.7 F              | <b>VAPOUR DENSITY (air=1)</b>        | 3.6 @ 25 C / 77 F |
| <b>VAPOUR PRESSURE</b>               | 96 PSIA 25 C / 77 F            | <b>VOLATILE BY VOL. (%)</b>          | 100               |
| <b>FLAMMABILITY LIMIT - LOWER(%)</b> | N A                            | <b>FLAMMABILITY LIMIT - UPPER(%)</b> | N A               |

**10 STABILITY AND REACTIVITY****STABILITY**

Stable under normal temperature conditions and recommended use.

**CONDITIONS TO AVOID**

Avoid contact with naked flames and hot surfaces as corrosive and toxic decomposition products can be formed.

**HAZARDOUS POLYMERISATION**

Will not polymerise.

**MATERIALS TO AVOID**

Alkali metals. Alkali earth metals. Powdered metal.

**HAZARDOUS DECOMPOSITION PRODUCTS**

Fire or high temperatures may form toxic and corrosive vapours. Halogenated hydrocarbons. Hydrogen fluoride (HF). Carbon dioxide (CO<sub>2</sub>). Carbon monoxide (CO).

**11 TOXICOLOGICAL INFORMATION****INHALATION**

Vapours may irritate the respiratory system and cause coughing, asthmatic breathing and breathlessness.

**INGESTION**

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

**SKIN CONTACT**

Acts as a defatting agent on skin. May cause cracking of skin, and eczema.

**EYE CONTACT**

May cause temporary eye irritation.

**OTHER HEALTH EFFECTS**

This substance has no evidence of carcinogenic properties.

**MEDICAL SYMPTOMS**

High concentrations of vapours may irritate respiratory system and lead to headache, fatigue, nausea and vomiting.

|                             |                            |
|-----------------------------|----------------------------|
| <b>Name</b>                 | HFC-134a Tetrafluoroethane |
| <b>Toxic Dose 1 - LD 50</b> | >2085 mg/kg (oral rat)     |
| <b>OTHER HEALTH EFFECTS</b> |                            |

This substance has no evidence of carcinogenic properties.

**12 ECOLOGICAL INFORMATION**

|                                     |                            |
|-------------------------------------|----------------------------|
| <b>Name</b>                         | HFC-134a Tetrafluoroethane |
| <b>LC 50, 96 Hrs, FISH mg/l</b>     | 450                        |
| <b>EC 50, 48 Hrs, DAPHNIA, mg/l</b> | 980                        |

**13 DISPOSAL CONSIDERATIONS**

## AIR - DST- Micro Blast, Big Blast, Dry Circuit Cleaner

**GENERAL INFORMATION**

Waste to be treated as controlled waste. Disposal to licensed waste disposal site in accordance with local Waste Disposal Authority.

**DISPOSAL METHODS**

Dispose of waste and residues in accordance with local authority requirements.

### 14 TRANSPORT INFORMATION



|                             |                          |                      |      |
|-----------------------------|--------------------------|----------------------|------|
| <b>PROPER SHIPPING NAME</b> | AEROSOLS                 |                      |      |
| <b>PROPER SHIPPING NAME</b> | CONSUMER COMMODITY ORM-D |                      |      |
| <b>UN NO. ROAD</b>          | UN1950                   | <b>ADR CLASS NO.</b> | 2.2  |
| <b>ADR LABEL NO.</b>        | 3                        | <b>HAZCHEM CODE</b>  | N/A  |
| <b>CEFIC TEC(R) NO.</b>     | 20G53                    | <b>RID CLASS NO.</b> | 2.2  |
| <b>UN NO. SEA</b>           | 1950                     | <b>IMDG CLASS</b>    | 2.2  |
| <b>IMDG PACK GR.</b>        | N/A                      | <b>UN NO. AIR</b>    | 1950 |
| <b>AIR CLASS</b>            | 2.2                      | <b>AIR SUB CLASS</b> | N/A  |
| <b>AIR PACK GR.</b>         | N/A                      |                      |      |

### 15 REGULATORY INFORMATION

**RISK PHRASES**

NC Not classified.

**SAFETY PHRASES**

A1 Pressurised container: protect from sunlight and do not expose to temperatures exceeding 50°C. Do not pierce or burn, even after use.

A2 Do not spray on a naked flame or any incandescent material.

S2 Keep out of the reach of children

S3 Keep in a cool place.

S15 Keep away from heat.

**EU DIRECTIVES**

System of specific information relating to Dangerous Preparations. 2001/58/EC.

**APPROVED CODE OF PRACTICE**

Classification and Labelling of Substances and Preparations Dangerous for Supply.

**GUIDANCE NOTES**

Workplace Exposure Limits EH40. Introduction to Local Exhaust Ventilation HS(G)37.

**NATIONAL REGULATIONS**

The Aerosol Dispensers (EEC Requirements)(Amendment) Regulations 1996 (SI 1996 No 2421).

### 16 OTHER INFORMATION

**REVISION COMMENTS**

NOTE: Lines within the margin indicate significant changes from the previous revision.

**REVISION DATE** 28/08/2009

**REV. NO./REPL. SDS** 1

**GENERATED**

## **AIR - DST- Micro Blast, Big Blast, Dry Circuit Cleaner**

### **SAFETY DATA SHEET STATUS**

Approved.

### **DATE**

August 28, 2009

### **DISCLAIMER**

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.