

PRF 101

Date 27.8.2013

Previous date: 27.8.2013

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING**1.1 Product identifier****1.1.1 Commercial Product Name**

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1.2 Relevant identified uses of the substance or mixture and uses advised against**1.2.1 Recommended use**

Refrigerant

1.3 Details of the supplier of the safety data sheet**1.3.1 Supplier**

Taerosol Oy

Street address

Hampuntie 21

Postcode and post office

36220

Postcode and post office

Kangasala Finland

Telephone

03-3565600

Email

tarmo.dahlman@taerosol.com

1.4 Emergency telephone number**1.4.1 Telephone number, name and address**

09-471 977 tai 09-4711 Myrkytystietokeskus / HUS

PL 340 (Haartmaninkatu 4), 00029 HUS (Helsinki)

2. HAZARDS IDENTIFICATION**2.1 Classification of the substance or mixture**

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2.2 Label elements**1272/2008 (CLP)****Precautionary Statements**

P251 Pressurized container: Do not pierce or burn, even after use.

P410 Protect from sunlight.

P412 Do not expose to temperatures exceeding 50 °C/ 122 °F.

2.3 Other hazards

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3. COMPOSITION/INFORMATION ON INGREDIENTS**3.1 Substances**

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CAS/EC and Reg. number

811-97-2

Chemical name of the substance

1.1.1.2 Tetrafluroethane

Concentration Classification

95-100%

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3.3 Other information

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4. FIRST AID MEASURES**4.1 Description of first aid measures**

When symptoms persist or in all cases of doubt seek medical advice. Liquid product causes severe burns, irritation of the digestive system and badly healing sores.

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- 4.1.2 Inhalation**
In the case of inhalation of aerosol/mist consult a physician if necessary.
- 4.1.3 Skin contact**
Treat frost-bitten areas as needed. Avoid skin contact with leaking liquid (danger of frostbite).
- 4.1.4 Eye contact**
Flush eyes with water as a precaution. RSh 3 - Contact with vapour causes burns to skin and eyes and contact with liquid causes freezing.
- 4.1.5 Ingestion**
Ingestion causes burns of the upper digestive and respiratory tracts.
- 4.2 Most important symptoms and effects, both acute and delayed**
The product causes burns of eyes, skin and mucous membranes.
- 4.3 Indication of immediate medical attention and special treatment needed**
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5. FIREFIGHTING MEASURES

- Will not burn
- 5.1 Extinguishing media**
- 5.1.1 Suitable extinguishing media**
Will not burn
- 5.1.2 Extinguishing media which must not be used for safety reasons**
Will not burn
- 5.2 Special hazards arising from the substance or mixture**
Heating may cause an explosion.
- 5.3 Advice for firefighters**
Heating may cause an explosion.
- 5.4 Specific methods**
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6. ACCIDENTAL RELEASE MEASURES

- 6.1 Personal precautions, protective equipment and emergency procedures**
Immediately evacuate personnel to safe areas.
- 6.2 Environmental precautions**
No special environmental precautions required.
- 6.3 Methods and materials for containment and cleaning up**
Not relevant for the product itself.
- 6.4 Reference to other sections**
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7. HANDLING AND STORAGE

- 7.1 Precautions for safe handling**
Keep in a well-ventilated place. Keep away from heat and sources of ignition.
- 7.2 Conditions for safe storage, including any incompatibilities**
Keep product and empty container away from heat and sources of ignition.
- 7.3 Specific end use(s)**
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8. EXPOSURE CONTROLS/PERSONAL PROTECTION

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8.1 Control parameters

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8.1.1 Threshold limits811-97-2 1.1.1.2 Tetrafluroethane 1000 ppm (8 h) 4240 mg/m³ (8 h)**8.1.2 Other information on limit values**

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8.1.3 Limit values in other countries

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8.1.4 DNELs

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8.2 Exposure controls**8.2.2 Individual protection measures****8.2.2.1 Respiratory protection**

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8.2.2.2 Hand protection

For prolonged or repeated contact use protective gloves.

8.2.2.3 Eye/face protection

Use respirator when performing operations involving potential exposure to vapour of the product.

8.2.2.4 Skin protection

Wear suitable gloves and eye/face protection.

8.2.3 Environmental exposure controls

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9. PHYSICAL AND CHEMICAL PROPERTIES**9.1 Important Health Safety and Environmental Information****9.1.1 Appearance**

Aerosol

9.1.2 Odour

odourless

9.1.3 Odour threshold

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9.1.4 pH

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9.1.5 Melting point/freezing point

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9.1.6 Initial boiling point and boiling range

-26°C

9.1.7 Flash point

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9.1.8 Evaporation rate

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9.1.9 Flammability (solid, gas)

Will not burn

9.1.10 Explosive properties**9.1.10.1 Lower explosion limit**

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9.1.10.2 Upper explosion limit

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9.1.11 Vapour pressure

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9.1.12 Vapour density

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9.1.13 Relative density1230Kg/m³**9.1.14 Solubility(ies)****9.1.14.1 Water solubility**

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9.1.14.2 Fat solubility (solvent - oil to be specified)

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9.1.15 Partition coefficient: n-octanol/water

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9.1.16 Auto-ignition temperature

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9.1.17 Decomposition temperature

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9.1.18 Viscosity

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9.1.19	Explosive properties	-
9.1.20	Oxidising properties	-
9.2	Other information	-

10. STABILITY AND REACTIVITY

10.1	Reactivity	-
10.2	Chemical stability	-
10.3	Possibility of hazardous reactions	-
10.4	Conditions to avoid	Do not spray on a naked flame or any incandescent material. Keep away from sources of ignition - No smoking. Keep away from children.
10.5	Incompatible materials	-
10.6	Hazardous decomposition products	-

11. TOXICOLOGICAL INFORMATION

11.1	Information on toxicological effects	-
11.1.1	Acute toxicity	-
11.1.3	Sensitisation	-
11.1.4	Subacute, subchronic and prolonged toxicity	-
11.1.5	STOT-single exposure	-
11.1.6	STOT-repeated exposure	-
11.1.7	Aspiration hazard	-

12. ECOLOGICAL INFORMATION

12.1	Toxicity	
12.1.1	Aquatic toxicity	-
12.1.2	Toxicity to other organisms	-
12.2	Persistence and degradability	
12.2.1	Biodegradation	-
12.2.2	Chemical degradation	-
12.3	Bioaccumulative potential	-

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12.4 Mobility in soil

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12.5 Results of PBT and vPvB assessment**12.6 Other adverse effects****13. DISPOSAL CONSIDERATIONS****13.1 Waste treatment methods**

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13.2 Waste from residues / unused products

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14. TRANSPORT INFORMATION**14.1 UN number** 1950**14.2 UN proper shipping name** Aerosol**14.3 Transport hazard class(es)** 2.2**14.4 Packing group** 2**14.5 Environmental hazards** -**14.6 Special precautions for users**

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

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15. REGULATORY INFORMATION

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

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15.2 Chemical safety assessment

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16. OTHER INFORMATION**16.1 Additions, Deletions, Revisions**
REGULATION (EC) No 1272/2008**16.2 Key or legend to abbreviations and acronyms**

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16.3 Key literature references and sources for data

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16.4 Classification procedure

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16.6 Training advice

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