

# MATERIAL SAFETY DATA SHEET

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Revision nr : 7

Date : 11/3/2010

Supersedes : 5/8/2009

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## Producer/Supplier

DISKO EDV-Reinigungsprodukte GmbH

Resselgasse 1

2201 Gerasdorf

Austria

Tél : 0043/1/734 35 96

Fax : 0043/1/734 35 96 15

mail : info@disko.com

## 1. Identification of the product and the company

Identification of the product : Aerosol.  
Company identification : See producer.  
**Trade name** : **DISKO dust remover 1224.**  
Use : Souffleur, dépoussiérant, assécheur  
For professional use only.

## 2. Hazards identification

Main hazards : This product is not classified as a "hazardous preparation" according to European Community regulations.  
Not classified as flammable by EC criteria but may present a hazard in the event of a fire.

Adverse human health effects : To our knowledge, this product does not present any particulier risk, provided it is handled in accordance with good occupational hygiene an safety practice.

- Inhalation : This material or its emissions may affect the nervous system.
- Skin contact : Repeated or prolonged skin contact may cause irritation progressing to a burn.
- Eye contact : Direct contact with liquefied gas may cause severe and possibly permanent eye injury due to frostbite from rapid liquid evaporation.  
Redness, pain.
- Ingestion : Ingestion unlikely.

## 3. Information on ingredients

This product is not considered to be hazardous and does not contain hazardous components.

Substance name	Value(s)	CAS nr / EINECS nr / EC index	Symbol(s)	R-Phrase(s)
<u>1,1,1,2-Tetrafluoroethane</u>	: <= 100 %	811-97-2 / 212-377-0 / -----		

## 4. First aid measures

First aid

- Inhalation : If overcome by exposure, remove victim to fresh air immediately. Allow the victim to rest.  
Seek medical advice.
- Skin contact : In the event of contact with the liquid : treat resulting frostbite as a burn.  
Rinse immediately with plenty of water.  
If skin burns appear, call a doctor immediately.
- Eye contact : In case of eye contact, immediately rinse with clean water for 10-15 minutes.  
Contact ophthalmologist immediately.

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## 4. First aid measures (continued)

- Ingestion : Ingestion unlikely.  
Rinse mouth.  
Obtain medical attention.

## 5. Fire - fighting measures

- Flammable class : Not flammable.  
Extinguishing media  
- Suitable : All extinguishing media can be used.  
- Not to be used : None to our knowledge  
Surrounding fires : Use water spray to cool exposed surfaces.  
During a fire, projections ignited aerosol that burst under excessive pressure have to be controlled. To avoid overpressure, cool aerosols with water.  
Special exposure hazards : On heating : toxic and corrosive vapours are released  
Protection against fire : Do not enter fire area without proper protective equipment, including respiratory protection.  
Special procedures : Exercise caution when fighting any chemical fire.

## 6. Accidental release measures

- General precautions : Measures to take in the case of crushing or piercing aerosols, causing the leaking of products contained in aerosols.  
Ventilate area.  
Remove ignition sources.  
Personal precautions : Do not breathe vapours.  
Avoid contact with skin and eyes.  
Evacuate and limit access. No smoking.

## 7. Handling and storage

- General : Use for intended purposes only.  
Do not breathe gas, fumes, vapour or spray.  
Store and handle as though always a serious potential fire/explosion and health hazard exists.  
During the handling of a pallet, you have to take all precaution to avoid a start of a n accident perforation of the aerosol by a fork-lift truck.  
During the load and unloading of the vehicle, you have to take all the precaution to avoid a fall a aerosol.  
Do not spray tha aerosol neither close nor towards a flame, a white-hot body, an electrical appliance in runing, DO NOT SMOCKING.  
Precautions in handling and storage : Use only properly specified equipment which is suitable for this product, its supply pressure and temperature.  
Container under pressure. Do not drill or burn even after use.  
Good ventilation of the workplace required.  
Storage : Store in dry, well-ventilated area.  
Keep at temperature not exceeding 50 °C.  
These recommendations have to be apply in warehouse and stockrooms where aerosols are stored.  
It is advised to differentiate the aerosols in the stock. The "aerosol area" must be delimited by a 5cm at the lastest wire netting cage or a wall to avoid aerosols discharges which would set fire to the rest of the stock.  
DO NOT SMOCKING  
To limit falling risks, it is advisable to put the pallets as close as possible of the floor. If they are moved, it is advisable to make sure that the lower layer is not crushing - Leaking risks by compression.  
It is advised :  
To ventilate the permises and to not store aerosols near to a source of heat and so does for the rays of sunshines.  
To use the fire procedures in case of works.

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## 7. Handling and storage (continued)

- Storage - away from : Sparks.  
Heat.  
Direct sunlight.  
Open flame.
- Handling : Wash hands and other exposed areas with mild soap and water before eat, drink or smoke and when leaving work.

## 8. Exposure controls / personal protection

- Personal protection
- Respiratory protection : No special respiratory protection equipment is recommended under normal conditions of use with adequate ventilation.
  - Hand protection : None under normal conditions.
  - Skin protection : None under normal conditions.
  - Eye protection : Eye protection should only be necessary where liquid could be splashed or sprayed.
  - Ingestion : When using, do not eat, drink or smoke.
- Industrial hygiene : Provide local exhaust or general room ventilation.
- Occupational Exposure Limits
- TLV-TWA [mg/m<sup>3</sup>] : 1,1,1,2-Tétrafluoroéthane (cas 811-97-2) : 4420
- TLV-TWA [ppm] : 1,1,1,2-Tétrafluoroéthane (cas 811-97-2) : 1000

## 9. Physical and chemical properties

- Physical state : Liquefied gas.
- Colour : Colourless.
- Odour : Ethereal.
- Density : 1.22
- Flash point [°C] : Not applicable.
- Others : Aerosol pressure at 20°C : 5 Bars.

## 10. Stability and reactivity

- Hazardous decomposition products : Thermal decomposition generates : Hydrogen fluoride - oxide of carbon (CO, CO<sub>2</sub>)
- Materials to avoid : Strong oxidizers.  
Strong bases.  
Zinc (Zn).  
Aluminium.  
Alkali metals.  
Aerosol cases in metal, do not bring into contact with oxidize, acids or basis.
- Conditions to avoid : Direct sunlight. Heat. Open flame. Sparks.

## 11. Toxicological information

- On product : Not expected to present a significant hazard under anticipated conditions of normal use.
- Acute toxicity : (1,1,1,2-Tétrafluoroéthane) CL 50 inh. (rat) / 4 h : > 500000ppm
- Inhalation : In the event of exposure to high concentrations :  
Central Nervous System depressant  
Difficulty in breathing  
Narcotic effect  
Cardiac disorders
  - Ocular : Contact with liquefied gas may cause severe ocular lesions.
  - Dermal : Liquid can cause frost-type burns.

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## 12. Ecological information

Ecological effects information : This product is not hazardous.  
Persistence and degradability : Ozon-depending potential: ODP (R-11=1) = 0.  
Global warming potential: GWP (CO<sub>2</sub>=1/100ans) = 1300

## 13. Disposal considerations

Disposal : Avoid release to the environment.  
Dispose in a safe manner in accordance with local/national regulations.  
Dispose used or damaged aerosol cans at permitted disposal sites.

## 14. Transport information

Hazard Label(s)



General information : 2.2  
: Aerosols may benefit of exoneration of labeling for transport and declaration on limites quantities.

- Proper shipping name : UN1950 AÉROSOLS, 2.2, 5A  
Shipping name : UN1950 AÉROSOLS, 2.2, 5A  
- UN No. : 1950  
- H.I. nr : --

Land transport  
- ADR/RID : Group : A  
Class : 2

Sea transport  
- IMO-IMDG : Class 2  
IMO Packing group : A  
- EMS-Nr : F-D S-U  
- IMDG-Marine pollution : YES ò

Air transport  
- ICAO/IATA : Packaging instructions cargo : 203  
Packaging instructions passenger: 203  
- IATA : 2  
IATA Packing group : A

## 15. Regulatory information

Symbol(s) : Flammability determined by the Aerosol Directive 2008/47/CE april 8, 2008.  
European labelling for Dangerous preparation : Directive 1999/45/CE.  
None.

R Phrase(s) : None.

S Phrase(s) : S2 : Keep out of the reach of children.  
S23 : Do not breathe spray.  
S25 : Avoid contact with eyes.  
S41 : In case of fire and/or explosion, do not breathe fumes.

Safety advises : Pressurised container, protect from sunlight and do not expose to temperatures exceeding 50°C. Do not pierce or burn, even after use.  
Use for intended purposes only.

France : Surveillance médicale spéciale selon l'arrêté du 11 juillet 1977 en raison de la présence de dérivés fluorés.

Other : For professional use only.

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### 16. Other information

Further information : Imp. DL4  
Revision - See : \*  
Print date : 14 / 6 / 2010

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