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#### **CFC-13**

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

1.1 Identification of the preparation: CFC-13

Synonyms: Chlorotrifluoromethane

Formula : CCIF<sub>3</sub>
CAS-No : 75-72-9
EEC-No : 200-894-4

1.2 Company:

Honeywell

AlliedSignal Fluorochemicals Europe B.V.

Kempenweg 90 P.O.Box 264 6000 AG Weert The Netherlands

Tel (31)495 514200 Fax (31)495 518626

3 Emergency telephone number: (32) 16 391 391

# 2. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS-No	Weight %	Symbol(s): & R -phrase(s)	
chlorotrifluoromethane	75-72-9	100	N;R59	

#### 3. HAZARDS IDENTIFICATION

3.1 Most important hazards:

3.2 Specific hazards: Dangerous for the ozone layer.

#### 4. FIRST-AID MEASURES

4.1 Eyes : Rinse immediately with plenty of water for at least 15 minutes. Keep eye wide

open while rinsing. If symptoms persist, call a physician.

Skin : liquefied gas, may cause frostbite. Wash frostbitten areas with plenty of water. Do

not remove clothing. Wash off with warm water. If skin irritation persists, call a

physician.

Inhalation : Move to fresh air in case of accidental inhalation of vapours. Oxygen or artificial

respiration if needed. Do not apply artificial respiration if patient is breathing. Consult a physician after significant exposure. Do not give adrenaline or similar

drugs.

Ingestion : Do not induce vomiting without medical advice. Call a physician immediately. Do

not give drugs from adrenaline-ephedrine group.

General advice: Consult a physician after significant exposure.

#### 5. FIRE-FIGHTING MEASURES

5.1 Suitable extinguishing media:

The product itself does not burn. Extinguish with carbon dioxide, dry chemical, foam or waterspray. Use extinguishing measures that are appropriate to the environment.

5.2 Extinguishing media which must not be used for safety reasons:

None

5.3 Specific hazards: Possibility of generating hazardous reactions during a fire due to the presence of F

and/or Cl groups. Fire or intense heat may cause violent rupture of packages.

5.4 Special protective equipment for firefighters: In case of fire, wear a self contained breathing apparatus.

protective suit.

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5.5 Specific methods: Standard procedure for chemical fires. In the event of fire, cool tanks with water spray.

#### 6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions: Use personal protective equipment. Evacuate personnel to safe

areas. Do not breath vapours or spray mist. Ensure adequate

ventilation.

6.2 Methods for cleaning up: Shut off leaks if without risk. Solid evaporates. Ensure adequate

ventilation.

#### 7. HANDLING AND STORAGE

7.1 Handling: Keep away from heat, sources of ignition. Do not puncture or drop container. Provide

sufficient air exchange and/or exhaust in work rooms.

7.2 Storage: Keep containers tightly closed in a cool, well-ventilated place. Store in a cool and shaded

area. Do not expose to temperatures above 50 °C. Keep tightly closed.

#### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Engineering measures to reduce exposure:

Ensure adequate ventilation, especially in confined areas.

8.2 Personal protection equipment:

- Respiratory protection: In case of insufficient ventilation wear suitable respiratory equipment,

preferably a compressed airline breathing apparatus.

- Hand protection: impervious butyl rubber gloves.

- Eye protection: Wear as appropriate: safety glasses, goggles. Wear face-shield and

protective suit for abnormal processing problems.

- Skin and body protection: Chemical resistant apron, long sleeved clothing, safety shoes.

8.3 Exposure limit(s):

Honeywell : chlorotrifluoromethane: 1000ppm (TWA)

MAK-Werte (D) : Chlortrifluormethan: 1000ppm; 4330mg/m3

MAC (Nederland) : chlortrifluormethaan: 2000ppm; 8700mg/m3

#### 9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Form : colourless gas

9.2 Odour : very faint, ether-like

9.3 pH (at °C): not applicable

9.4 -81.4 °C Boiling point/range °C 9.5 Melting point/range -181 Flash point 9.6 not applicable ٥C 9.7 Flammability (solid, gas) not applicable °С 9.8 Autoignition temperature not applicable

9.9 Explosion limits : not applicable %vol %vol

9.10 Oxidizing properties

9.11 Vapour pressure (at 20  $^{\circ}$ C) : 32000 hPa 9.12 Relative density (at 20  $^{\circ}$ C) : 0.93 g/cm3

9.13 Water solubility : negligible 0.009 g/100ml

9.14 Solubility in other solvents : Solubility in other solvents: ether, ethanol

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9.15 Partition coefficient (n-

octanol/water)

9.16 Vapor density : 3.62 (air=1)9.17 Evaporation Rate : no data available

9.18 Other information

10. STABILITY AND REACTIVITY

10.1 Stability: Stable at normal conditions. No decomposition if stored and applied as directed.

Decomposition starting from 260°C.

10.2 Conditions to avoid: Fire or intense heat may cause violent rupture of packages.

10.3 Materials to avoid reacts violently with metals ( at high temperatures ). Contact with water liberates

hazardous gas (risk of explosion).

10.4 Hazardous decomposition products: (risk of explosion). hazardous decomposition products: (HCI, HF), carbonyl halides

(COCl<sub>2</sub>), carbon monoxide, carbon dioxide (CO2).

11. TOXICOLOGICAL INFORMATION

11.1 Acute toxicity: slightly harmful by inhalation

11.2 Irritation:

- Skin : slightly irritant. may cause frostbite.

- Eyes : slightly irritant

11.4 Chronic toxicity: no data available

12. ECOLOGICAL INFORMATION

12.1 Mobility: Aquatic toxicity is unlikely due to low solubility.

12.2 Ecotoxicity:

12.3 Other information: Ozone depletion potential; ODP; (R-11 = 1) = 1

Global warming potential (GWP) = 11700

13. DISPOSAL CONSIDERATIONS

13.1 Waste from residues / unused products: Offer surplus and non-recyclable solutions to an established

disposal company. In accordance with local and national

regulations. S59 - Refer to manufacturer/supplier for information on

recovery/recycling.

Contaminated packaging: Do not reuse empty containers. Empty pressure vessels should

be returned to the supplier.

14. TRANSPORT INFORMATION

UN No 1022

ADR/RID Proper shipping name : chlorotrifluoromethane (R13)

HI No : 20 Label : 2.2 UN No : 1022 Class & Item : 2.2A

IMDG Proper shipping name : chlorotrifluoromethane (R13)

IMDG Page : 2122 UN No : 1022 Class : 2.2

EmS : 2-09 MFAG : 350

Marine pollutant : not applicable

IATA / ICAO Proper shipping name chlorotrifluoromethane (R13)

Class : 2.2

15. REGULATORY INFORMATION

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15.1 Classification according to European directive on classification of hazardous preparations 88/379/EEC

Contains: chlorotrifluoromethane

EEC No. 200-894-4

Symbol(s):

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N - Dangerous for the environment

R -phrase(s): R59 - Dangerous for the ozone layer.

S -phrase(s): S 7/9 - Keep container tightly closed and in a well-ventilated place.

S23 - Do not breathe gas

S59 - Refer to manufacturer/supplier for information on recovery/recycling.

#### **16. OTHER INFORMATION**

REVISION: 1 (SDS 26/05/95)

Changes were made in section(s):

1. IDENTIFICATION OF THE

SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING

12. ECOLOGICAL INFORMATION

PRINT DATE: 22/12/1999

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release, and is not to be considered a warranty or quality specification. The 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, unless specified in the text.

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