IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product identifiers
Product name: 3,3,3-Trifluoro-1-propyne
Product Number: EX-005511
Brand: Exir
CAS-No.: 661-54-1

1.2 Relevant identified uses of the substance or mixture and uses advised against
Identified uses: Laboratory chemicals, Manufacture of substances

1.3 Details of the supplier of the safety data sheet
Company: Exir GmbH
Flotowgasse 18-22/2/1
1190 WIEN
AUSTRIA
Telefon: +43 (0) 19463937
Fax: +43 (0) 19462797
Email-Adress: info@exir.co.at

1.4 Emergency telephone number
Emergency Phone #: +43 (0) 14064343

HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture
Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.
Classification according to EU Directives 67/548/EEC or 1999/45/EC
Highly flammable.

2.2 Label elements
Hazard symbol(s)

R-phrase(s)
R11
S-phrase(s)
S9
S16
S23
S33

Highly flammable.
Keep container in a well-ventilated place.
Keep away from sources of ignition - No smoking.
Do not breathe gas.
Take precautionary measures against static discharges.

2.3 Other hazards - none

COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances
Formula: C3HF3
MDL: MFCD00041552
Molecular Weight: 94.04 g/mol
4. FIRST AID MEASURES

4.1 Description of first aid measures

If inhaled
If breathed in, move person into fresh air. If not breathing, give artificial respiration.

In case of skin contact
Wash off with soap and plenty of water.

In case of eye contact
Flush eyes with water as a precaution.

If swallowed
Never give anything by mouth to an unconscious person. Rinse mouth with water.

4.2 Most important symptoms and effects, both acute and delayed
To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

4.3 Indication of any immediate medical attention and special treatment needed
No data available

5. FIREFIGHTING MEASURES

5.1 Extinguishing media
Suitable extinguishing media
Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

5.2 Special hazards arising from the substance or mixture
Carbon oxides, Hydrogen fluoride

5.3 Advice for firefighters
Wear self contained breathing apparatus for fire fighting if necessary.

5.4 Further information
No data available

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures
Avoid breathing vapors, mist or gas.

6.2 Environmental precautions
Do not let product enter drains.

6.3 Methods and materials for containment and cleaning up
Keep in suitable, closed containers for disposal.

6.4 Reference to other sections
For disposal see section 13.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling
No data available

7.2 Conditions for safe storage, including any incompatibilities
Store in cool place. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.
Contents under pressure.

7.3 Specific end use(s)
No data available
8. **EXPOSURE CONTROLS/PERSONAL PROTECTION**

8.1 **Control parameters**

Components with workplace control parameters

8.2 **Exposure controls**

**Appropriate engineering controls**
General industrial hygiene practice.

**Personal protective equipment**

**Eye/face protection**
Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

**Skin protection**
Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

**Body Protection**
Impervious clothing. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

**Respiratory protection**
Respiratory protection not required. For nuisance exposures use type OV/AG (US) or type ABEK (EU EN 14387) respirator cartridges. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

9. **PHYSICAL AND CHEMICAL PROPERTIES**

9.1 **Information on basic physical and chemical properties**

a) **Appearance**
Form: liquid

b) **Odour**
no data available

c) **Odour Threshold**
no data available

d) **pH**
no data available

e) **Melting point/freezing point**
no data available

f) **Initial boiling point and boiling range**
-48 °C at 940 hPa

g) **Flash point**
no data available

h) **Evaporation rate**
no data available

i) **Flammability (solid, gas)**
no data available

j) **Upper/lower flammability or explosive limits**
no data available

k) **Vapour pressure**
no data available

l) **Vapour density**
no data available

m) **Relative density**
no data available

n) **Water solubility**
no data available

o) **Partition coefficient: n-octanol/water**
no data available
9.2 Other safety information
no data available

10. STABILITY AND REACTIVITY
10.1 Reactivity
no data available
10.2 Chemical stability
no data available
10.3 Possibility of hazardous reactions
no data available
10.4 Conditions to avoid
no data available
10.5 Incompatible materials
Strong oxidizing agents
10.6 Hazardous decomposition products
Other decomposition products - no data available

11. TOXICOLOGICAL INFORMATION
11.1 Information on toxicological effects
Acute toxicity
no data available
Skin corrosion/irritation
no data available
Serious eye damage/eye irritation
no data available
Respiratory or skin sensitization
no data available
Germ cell mutagenicity
Carcinogenicity
IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
Reproductive toxicity
Specific target organ toxicity - single exposure
no data available
Specific target organ toxicity - repeated exposure
no data available
Aspiration hazard
no data available
Potential health effects
Inhalation May be harmful if inhaled. May cause respiratory tract irritation.
Ingestion  May be harmful if swallowed.
Skin     May be harmful if absorbed through skin. May cause skin irritation.
Eyes     May cause eye irritation.

Signs and Symptoms of Exposure
To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Additional Information
RTECS: Not available

12. ECOLOGICAL INFORMATION
12.1 Toxicity
no data available
12.2 Persistence and degradability
no data available
12.3 Bioaccumulative potential
no data available
12.4 Mobility in soil
no data available
12.5 Results of PBT and vPvB assessment
no data available
12.6 Other adverse effects
no data available

13. DISPOSAL CONSIDERATIONS
13.1 Waste treatment methods
Product
Offer surplus and non-recyclable solutions to a licensed disposal company.
Contaminated packaging
Dispose of as unused product.

14. TRANSPORT INFORMATION
14.1 UN number
ADR/RID: 3161         IMDG: 3161        IATA: 3161
14.2 UN proper shipping name
ADR/RID: LIQUEFIED GAS, FLAMMABLE, N.O.S. (3,3,3-Trifluoropropyne)
IMDG: LIQUEFIED GAS, FLAMMABLE, N.O.S. (3,3,3-Trifluoropropyne)
IATA: Liquefied gas, flammable, n.o.s. (3,3,3-Trifluoropropyne)
Passenger Aircraft: Not permitted for transport
14.3 Transport hazard class(es)
ADR/RID: 2.1         IMDG: 2.1        IATA: 2.1
14.4 Packaging group
ADR/RID: -            IMDG: -             IATA: -
14.5 Environmental hazards
ADR/RID: no           IMDG Marine Pollutant: no        IATA: no
14.6 Special precautions for user
no data available

15. REGULATORY INFORMATION
This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.
15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
no data available

Exir - EX-005511
15.2 Chemical Safety Assessment
no data available

16. OTHER INFORMATION

Further information
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