1-Propyne, 3,3,3-trifluoro- (cas 661-54-1) MSDS

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING
   Product Name: 3,3,3-Trifluoro-1-propyne

2. HAZARDS IDENTIFICATION
   Classification of the substance or mixture
   Not a hazardous substance or mixture according to Regulation (EC) No 1272/2008
   Highly flammable.
   Label elements
   Hazard symbol(s): F
   R-phrase(s): R11
   S-phrase(s): S9, S16, S23, S33

   Other hazards - none

3. COMPOSITION/INFORMATION ON INGREDIENTS
   Formula: C3HF3
   Molecular Weight: 94.04 g/mol
   CAS-No.: 661-54-1
   EC-No.: 211-548-7
   Index-No.: -
   Classification: F, R11
   Concentration: -

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

5. FIRE-FIGHTING MEASURES
   Suitable extinguishing media
   Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
   Special protective equipment for fire-fighters
   Wear self-contained breathing apparatus for fire fighting if necessary.

6. ACCIDENTAL RELEASE MEASURES
   Personal precautions
   Avoid breathing vapors, mist or gas.
   Environmental precautions
   Do not let product enter drains.
   Methods and materials for containment and cleaning up
   Keep in suitable, closed containers for disposal.

7. HANDLING AND STORAGE
Precautions for safe handling
Normal measures for preventive fire protection.

Conditions for safe storage
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. Store in cool place.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Personal protective equipment

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).

Hand 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.

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

Skin and 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.

Hygiene measures
General industrial hygiene practice.

- 544086

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance
Form liquid

Safety data
pH no data available
Melting point no data available
Boiling point -48 °C at 940 hPa
Flash point no data available
Ignition temperature no data available
Lower explosion limit no data available
Upper explosion limit no data available
Water solubility no data available

10. STABILITY AND REACTIVITY

Chemical stability
Stable under recommended storage conditions.

Conditions to avoid
No data available

Materials to avoid
Strong oxidizing agents

Hazardous decomposition products
Hazardous decomposition products formed under fire conditions. - Carbon oxides, Hydrogen fluoride

11. TOXICOLOGICAL INFORMATION

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
Specific target organ toxicity - repeated exposure
Aspiration hazard

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
Toxicity
no data available

Persistence and degradability
no data available

Bioaccumulative potential

Mobility in soil

PBT and vPvB assessment
no data available

Other adverse effects
no data available

13. DISPOSAL CONSIDERATIONS
Product
Offer surplus and non-recyclable solutions to a licensed disposal company.

Contaminated packaging
Dispose of as unused product.

14. TRANSPORT INFORMATION
ADR/RID
UN-Number: 3161 Class: 2.1
Proper shipping name: LIQUEFIED GAS, FLAMMABLE, N.O.S. (3,3,3-Trifluoropropine)

IMDG
UN-Number: 3161 Class: 2.1
Proper shipping name: LIQUEFIED GAS, FLAMMABLE, N.O.S. (3,3,3-Trifluoropropine)
EMS-No: F-D, S-U
Marine pollutant: No

IATA
UN-Number: 3161 Class: 2.1
Proper shipping name: Liquefied gas, flammable, n.o.s. (3,3,3-Trifluoropropyne)
IATA Passenger: Not permitted for transport

15. REGULATORY INFORMATION
This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

16. OTHER INFORMATION
Text of H-code(s) and R-phrase(s) mentioned in Section 3

F Highly flammable
R11 Highly flammable.

Further information
The above information is believed to be correct but does not purport to be all inclusive and
shall be used only as a guide. The information this document is based on the resent state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. guidechem shall not be held liable for any damage resulting from handling or from contact with the above product. See reverse side of invoice or packing slip for additional terms and conditions of sale.

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. - Co., shall not be held liable for any damage resulting from handling or from contact with the above product. See reverse side of invoice or packing slip for additional terms and conditions of sale.