

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

Product name : 1-Pentyne

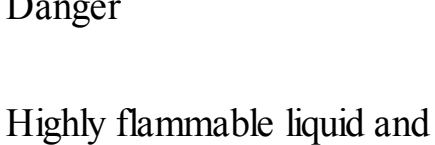
2. HAZARDS IDENTIFICATION

Classification of the substance or mixture

According to Regulation (EC) No1272/2008  
Flammable liquids (Category 2)  
Skin irritation (Category 2)  
Eye irritation (Category 2)  
Specific target organ toxicity - single exposure (Category 3)  
Aspiration hazard (Category 1)

According to European Directive 67/548/EEC as amended.  
Highly flammable. Irritating to eyes, respiratory system and skin. Harmful: may cause lung damage if swallowed.

Label elements

|                            |                                                                                                                                  |
|----------------------------|----------------------------------------------------------------------------------------------------------------------------------|
| Pictogram                  |                                                 |
| Signal word                | Danger                                                                                                                           |
| Hazard statement(s)        |                                                                                                                                  |
| H225                       | Highly flammable liquid and vapour.                                                                                              |
| H304                       | May be fatal if swallowed and enters airways.                                                                                    |
| H315                       | Causes skin irritation.                                                                                                          |
| H319                       | Causes serious eye irritation.                                                                                                   |
| H335                       | May cause respiratory irritation.                                                                                                |
| Precautionary statement(s) |                                                                                                                                  |
| P210                       | Keep away from heat/sparks/open flames/hot surfaces. - No smoking.                                                               |
| P261                       | Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.                                                                           |
| P301 + P310                | IF SWALLOWED: Immediately call a POISON CENTER or doctor/ physician.                                                             |
| P305 + P351 + P338         | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. |
| P331                       | Do NOT induce vomiting.                                                                                                          |
| Hazard symbol(s)           |                                                                                                                                  |
| F                          | Highly flammable                                                                                                                 |
| Xn                         | Harmful                                                                                                                          |
| R-phrases(s)               |                                                                                                                                  |
| R11                        | Highly flammable.                                                                                                                |
| R36/37/38                  | Irritating to eyes, respiratory system and skin.                                                                                 |
| R65                        | Harmful: may cause lung damage if swallowed.                                                                                     |
| S-phrases(s)               |                                                                                                                                  |
| S16                        | Keep away from sources of ignition - No smoking.                                                                                 |
| S26                        | In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.                                    |
| S36                        | Wear suitable protective clothing.                                                                                               |
| S62                        | If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.                          |

Other hazards - none

3. COMPOSITION/INFORMATION ON INGREDIENTS

Formula : C5H8  
Molecular Weight : 68,12 g/mol

| CAS-No.                       | EC-No.    |   | Classification                                                                                                                  | Concentration |
|-------------------------------|-----------|---|---------------------------------------------------------------------------------------------------------------------------------|---------------|
| <b>Pent-1-yne</b><br>627-19-0 | 210-987-1 | - | Flam. Liq. 2; Skin Irrit. 2; Eye Irrit. 2; STOT SE 3; Asp. Tox. 1; H225, H304, H315, H319, H335<br>F, Xn, R11 - R36/37/38 - R65 | -             |

For the full text of the H-Statements mentioned in this Section, see Section 16.

4. FIRST AID MEASURES

General advice

Consult a physician. Show this safety data sheet to the doctor in attendance.

If inhaled

If breathed in, move person into fresh air. If not breathing give artificial respiration Consult a physician.

In case of skin contact

Wash off with soap and plenty of water. Consult a physician.

In case of eye contact

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

If swallowed

Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media

For small (incipient) fires, use media such as "alcohol" foam, dry chemical, or carbon dioxide. For large fires, apply water from as far as possible. Use very large quantities (flooding) of water applied as a mist or spray; solid streams of water may be ineffective. Cool all affected containers with flooding quantities of water.

Special protective equipment for fire-fighters

Wear self contained breathing apparatus for fire fighting if necessary.

Further information

Use water spray to cool unopened containers.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions

Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.

Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

Methods and materials for containment and cleaning up

Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).

7. HANDLING AND STORAGE

Precautions for safe handling

Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. Keep away from sources of ignition - No smoking. Take measures to prevent the build up of electrostatic charge.

Conditions for safe storage

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.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Personal protective equipment

Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type AXBEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Hand protection

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

Handle with gloves.

Eye protection

Face shield and safety glasses

Skin and body protection

Choose body protection according to the amount and concentration of the dangerous substance at the work place.

Hygiene measures

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

Form clear, liquid  
Colour colourless

Safety data

pH no data available  
Melting point -106 - -105 °C - lit.  
Boiling point 40 °C - lit.  
Flash point -20 °C - closed cup  
Ignition temperature no data available  
Lower explosion limit no data available  
Upper explosion limit no data available  
Vapour pressure 468,8 hPa at 20 °C  
1.647,3 hPa at 55 °C  
Density 0,691 g/cm3 at 25 °C  
Water solubility no data available

10. STABILITY AND REACTIVITY

Chemical stability

Stable under recommended storage conditions.

Conditions to avoid

Heat, flames and sparks.

Materials to avoid

Oxidizing agents

Hazardous decomposition products

Hazardous decomposition products formed under fire conditions. - Carbon oxides

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

no data available

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

no data available

Specific target organ toxicity - single exposure

Inhalation - May cause respiratory irritation.

Specific target organ toxicity - repeated exposure

no data available

Aspiration hazard

The substance or mixture is known to cause human aspiration toxicity hazards or has to be regarded as if it causes a human aspiration toxicity hazard.

Potential health effects

**Inhalation** May be harmful if inhaled. Causes respiratory tract irritation.  
**Ingestion** May be harmful if swallowed. Aspiration hazard if swallowed - can enter lungs and cause damage.  
**Skin** May be harmful if absorbed through skin. Causes skin irritation.  
**Eyes** Causes eye irritation.

Signs and Symptoms of Exposure

Cough, Shortness of breath, Headache, Nausea, Vomiting, 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

no data available

Mobility in soil

no data available

PBT and vPvB assessment

no data available

Other adverse effects

no data available

13. DISPOSAL CONSIDERATIONS

Product

Burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra care in igniting as this material is highly flammable. Observe all federal, state, and local environmental regulations. Contact a licensed professional waste disposal service to dispose of this material.

Contaminated packaging

Dispose of as unused product.

14. TRANSPORT INFORMATION

ADR/RID

UN-Number: 3295 Class: 3 Packing group: II  
Proper shipping name: HYDROCARBONS, LIQUID, N.O.S.

IMDG

UN-Number: 3295 Class: 3 Packing group: II EMS-No: F-E, S-D  
Proper shipping name: HYDROCARBONS, LIQUID, N.O.S.  
Marine pollutant: No

IATA

UN-Number: 3295 Class: 3 Packing group: II  
Proper shipping name: Hydrocarbons, liquid, n.o.s.

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-phrases mentioned in Section 3

Asp. Tox. Aspiration hazard  
Eye Irrit. Eye irritation  
Flam. Liq. Flammable liquids  
H225 Highly flammable liquid and vapour.  
H304 May be fatal if swallowed and enters airways.  
H315 Causes skin irritation.  
H319 Causes serious eye irritation.  
H335 May cause respiratory irritation.  
Skin Irrit. Skin irritation  
STOT SE Specific target organ toxicity - single exposure  
F Highly flammable  
Xn Harmful  
R11 Highly flammable.  
R36/37/38 Irritating to eyes, respiratory system and skin.  
R65 Harmful: may cause lung damage if swallowed.

Further information

For R&D use only. Not for drug, household or other uses.



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WARRANTY:

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. Lookchem 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.