

1 - Product and Company Information

ProductName2,2-DIMETHYL-4-PENTENAL, TECH., 90%

2 - Hazards Identification

SPECIAL INDICATION OF HAZARDS TO HUMANS AND THE ENVIRONMENT  
Highly flammable. Irritating to eyes, respiratory system and skin.

3 - Composition/Information on Ingredients

| Product Name   | CAS #     | EC no     | Annex I |
|--|-----------|-----------|---------|
| 2,2-DIMETHYL-4-PENTENAL  | 5497-67-6 | 226-834-7 | None    |
| Ingredient Name Percent CAS # EC no Annex I                      |           |           |         |
| HYDROQUINONE 0.1 123-31-9 204-617-8 604-005-00-4                 |           |           |         |
| Carc. Cat.3 Muta. Cat.3  |           |           |         |
| Symbols: Xn-N  |           |           |         |
| R-Phrases: 22-40-41-43-50-68                                     |           |           |         |
| Harmful if swallowed. Limited evidence of a carcinogenic effect. |           |           |         |
| Risk of serious damage to eyes. May cause sensitization by skin  |           |           |         |
| contact. Very toxic to aquatic organisms. Possible risk of       |           |           |         |
| irreversible effects.  |           |           |         |

FormulaC7H12O  
Molecular Weight112.17 AMU

4 - First Aid Measures

AFTER INHALATION  
If inhaled, remove to fresh air. If not breathing give artificial respiration. If breathing is difficult, give oxygen.

AFTER SKIN CONTACT  
In case of contact, immediately wash skin with soap and copious amounts of water.

AFTER EYE CONTACT  
In case of contact, immediately flush eyes with copious amounts of water for at least 15 minutes.

AFTER INGESTION  
If swallowed, wash out mouth with water provided person is conscious. Call a physician.

5 - Fire Fighting Measures

EXTINGUISHING MEDIA  
Suitable: 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 RISKS  
Specific Hazard(s): Flammable liquid. Emits toxic fumes under fire conditions.  
Explosion Hazards: Vapor may travel considerable distance to source of ignition and flash back. Container explosion may occur under fire conditions.

SPECIAL PROTECTIVE EQUIPMENT FOR FIREFIGHTERS  
Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

6 - Accidental Release Measures

PERSONAL PRECAUTION PROCEDURES TO BE FOLLOWED IN CASE OF LEAK OR SPILL  
Evacuate area. Shut off all sources of ignition. Use nonsparking tools.

PROCEDURE(S) OF PERSONAL PRECAUTION(S)  
Wear self-contained breathing apparatus, rubber boots, and heavy rubber gloves.

METHODS FOR CLEANING UP  
Cover with dry-lime, sand, or soda ash. Place in covered containers using non-sparking tools and transport outdoors. Ventilate area and wash spill site after material pickup is complete.

7 - Handling and Storage

HANDLING  
Directions for Safe Handling: Do not breathe vapor. Do not get in eyes, on skin, on clothing. Avoid prolonged or repeated exposure.

STORAGE  
Conditions of Storage: Keep tightly closed. Keep away from heat, sparks, and open flame.  
Store at 2-8°C

8 - Exposure Controls / Personal Protection

ENGINEERING CONTROLS  
Safety shower and eye bath. Use nonsparking tools. Mechanical exhaust required.

GENERAL HYGIENE MEASURES  
Remove and wash contaminated clothing promptly. Wash thoroughly after handling.

PERSONAL PROTECTIVE EQUIPMENT  
Respiratory Protection: Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU). Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (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.  
Hand Protection: Compatible chemical-resistant gloves.  
Eye Protection: Chemical safety goggles.

9 - Physical and Chemical Properties

|                       |                        |                            |
|-----------------------|------------------------|----------------------------|
| Appearance            | Physical State: Liquid |                            |
| Property              | Value                  | At Temperature or Pressure |
| pH                    | N/A                    |                            |
| BP/BP Range           | 124.0 - 125.0 °C       | 760 mmHg                   |
| MP/MP Range           | N/A                    |                            |
| Flash Point           | 18 °C                  | Method: closed cup         |
| Flammability          | N/A                    |                            |
| Autoignition Temp     | N/A                    |                            |
| Oxidizing Properties  | N/A                    |                            |
| Explosive Properties  | N/A                    |                            |
| Explosion Limits      | N/A                    |                            |
| Vapor Pressure        | N/A                    |                            |
| SG/Density            | 0.825 g/cm3            |                            |
| Partition Coefficient | N/A                    |                            |
| Viscosity             | N/A                    |                            |
| Vapor Density         | N/A                    |                            |
| Saturated Vapor Conc. | N/A                    |                            |
| Evaporation Rate      | N/A                    |                            |
| Bulk Density          | N/A                    |                            |
| Decomposition Temp.   | N/A                    |                            |
| Solvent Content       | N/A                    |                            |
| Water Content         | N/A                    |                            |
| Surface Tension       | N/A                    |                            |
| Conductivity          | N/A                    |                            |
| Miscellaneous Data    | N/A                    |                            |
| Solubility            | N/A                    |                            |

10 - Stability and Reactivity

STABILITY  
Stable: Stable.  
Materials to Avoid: Strong oxidizing agents, Strong bases.

HAZARDOUS DECOMPOSITION PRODUCTS  
Hazardous Decomposition Products: Carbon monoxide, Carbon dioxide.

HAZARDOUS POLYMERIZATION  
Hazardous Polymerization: Will not occur

11 - Toxicological Information

ROUTE OF EXPOSURE  
Skin Contact: Causes skin irritation.  
Skin Absorption: May be harmful if absorbed through the skin.  
Eye Contact: Causes eye irritation.  
Inhalation: Material is irritating to mucous membranes and upper respiratory tract. May be harmful if inhaled.  
Ingestion: May be harmful if swallowed.

12 - Ecological Information

No data available.

13 - Disposal Considerations

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

dispose with an as this and

14 - Transport Information

RID/ADR  
UN#: 1989  
Class: 3  
PG: II  
Proper Shipping Name: Aldehydes, flammable, n.o.s.

IMDG  
UN#: 1989  
Class: 3  
PG: II  
Proper Shipping Name: Aldehydes, n.o.s.  
Marine Pollutant: No  
Severe Marine Pollutant: No  
Technical Name: Required

IATA  
UN#: 1989  
Class: 3  
PG: II  
Proper Shipping Name: Aldehydes, n.o.s.  
Inhalation Packing Group I: No  
Technical Name: Required

15 - Regulatory Information

CLASSIFICATION AND LABELING ACCORDING TO EU DIRECTIVES  
INDICATION OF DANGER: F-Xi  
Highly Flammable. Irritant.  
R-PHRASES: 11-36/37/38  
Highly flammable. Irritating to eyes, respiratory system and skin.  
S-PHRASES: 16-26-33-36  
Keep away from sources of ignition - no smoking. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Take precautionary measures against static discharges. Wear suitable protective clothing.

COUNTRY SPECIFIC INFORMATION

Germany  
WGK: No hazard to waters.  
Self-Classification

16 - Other Information

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

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.



www.lookchem.com