

**MATERIAL SAFETY DATA SHEET****Product Name:** PROPIONALDEHYDE**CAS No.:** 123-38-6**Version:** 0**1. Identification**

**Product Code** : 91580  
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**2. Hazards Identification****Hazard classification**

Flammable liquids : Category 2  
Acute toxicity, Oral : Category 2  
Acute toxicity, Inhalation : Category 4  
Skin irritation : Category 4  
Skin sensitisation : Category 2  
Serious eye damage : Category 1  
Specific target organ toxicity - single exposure : Category 3

**Labels elements**

Hazard symbol

**Signal word**

: Danger

**Hazard statement**: Highly flammable liquid and vapour.  
Harmful if swallowed or if inhaled  
Causes skin irritation.  
Causes serious eye damage.  
May cause respiratory irritation**Precautionary statement**: Keep away from heat/sparks/open flames/hot surfaces. No smoking.  
Avoid breathing vapours.  
Wear protective gloves/ eye protection/ face protection.  
IF IN EYES: Rinse cautiously with water for several minutes.  
Remove contact lenses, if present and easy to do. Continue rinsing.

**MATERIAL SAFETY DATA SHEET****Product Name:** PROPIONALDEHYDE**CAS No.:** 123-38-6**Version:** 0**Supplemental Hazard Statements** : None**3. Composition/information on ingredients****Ingredient** : Propanal Aldehyde C-3**CAS No.** : 123-38-6**Percent** : Min 97.0%**Formula** : C<sub>3</sub>H<sub>6</sub>O**Molecular Weight** : 58.08 g/mol**4. First Aid Measures****Description of first aid measures**

- General advice** : Consult a physician. Show this safety data sheet to the doctor in attendance.
- Inhalation** : If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
- Skin contact** : Wash off with soap and plenty of water. Consult a physician.
- Eye contact** : Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
- Swallowed** : Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.
- Most important symptoms and effects, both acute and delayed** : The most important known symptoms and effects are described in the labelling (see section 2) and/or in section 11
- Indication of any immediate medical attention and special treatment needed** : No data available

**5. Fire fighting measures****Extinguishing media**

- Suitable extinguishing media** : Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
- Special hazards arising from the substance or mixture** : Carbon oxides
- Advice for firefighters** : Wear self contained breathing apparatus for firefighting if necessary.

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- Personal precautions, protective equipment and emergency procedures** : Use personal protective equipment. Avoid breathing vapours, 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. Discharge into the environment must be avoided.
- Methods and materials for containment and cleaning up** : Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local 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, 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. Recommended storage temperature 2 - 8 °C Handle and open container with care. Handle and store under inert gas. Air and moisture sensitive.

**8. Exposure Controls / Personal Protection**

- Exposure limit** : No data available
- Appropriate engineering controls** : Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.
- Personal protective equipment**
- Respiratory protection : Air-purifying respirators
- Hand protection : Handle with gloves
- Eye protection : Face shield and safety glasses
- Skin and Body Protection : Complete suit protecting against chemicals

**9. Physical and Chemical Properties**

- Appearance** : Clear colourless liquid
- Odor** : No data available
- pH** : No data available

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<b>Melting point/freezing point</b>	:	-81 °C - lit.
<b>Initial boiling point and boiling range</b>	:	46 - 50 °C - lit
<b>Flash Point</b>	:	-40 °C - closed cup
<b>Vapor pressure</b>	:	No data available
<b>Vapor density</b>	:	No data available
<b>Relative density</b>	:	0.805 g/cm <sup>3</sup> at 25 °C
<b>Solubility in water</b>	:	No data available
<b>Solubility (other)</b>	:	No data available

**10. Stability and Reactivity**

<b>Reactivity</b>	:	No data available
<b>Chemical stability</b>	:	Stable under recommended storage conditions.
<b>Possibility of hazardous reactions</b>	:	No data available
<b>Conditions to avoid</b>	:	Heat, flames and sparks. Extremes of temperature and direct sunlight.
<b>Incompatible materials</b>	:	Oxidizing agents, Strong bases, Strong reducing agents
<b>Hazardous decomposition products</b>	:	Hazardous decomposition products formed under fire conditions. - Carbon oxides

**11. Toxicological Information****Information on toxicological effects**

<b>Acute toxicity</b>	:	No data available
<b>Skin corrosion/irritation</b>	:	No data available
<b>Serious eye damage/eye irritation</b>	:	No data available
<b>Respiratory or skin sensitization</b>	:	No data available
<b>Germ cell mutagenicity</b>	:	No data available
<b>Carcinogenicity</b>		
IARC	:	No data available
NTP	:	No data available
OSHA	:	No data available
<b>Reproductive toxicity</b>	:	No data available
<b>Route of Exposure</b>	:	No data available
<b>Signs and Symptoms of Exposure</b>	:	No data available

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**Toxicity** : No data available  
**Persistence and degradability** : No data available  
**Bioaccumulative potential** : No data available  
**Mobility in soil** : No data available  
**Other adverse effects** : No data available

**13. Disposal consideration**

**Disposal instructions** : Offer surplus and non-recyclable solutions to a licensed disposal company.  
**Contaminated packaging** : Dispose of as unused product.

**14. Transport Information**

	UN No.	UN proper shipping name	Hazard Class(es)	Packaging group	Marine Pollutant
<b>DOT</b>	1275	PROPIONALDEHYDE	3	II	NO
<b>IMDG</b>	1275	PROPIONALDEHYDE	3	II	NO
<b>IATA</b>	1275	PROPIONALDEHYDE	3	II	NO

**15. Regulatory Information**

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

Safety, health and environmental regulations/legislation specific for the substance or mixture  
No Data Available.

**16. Other Information****Issue Date** :22/03/2017**Version** : 0**Disclaimer:** This Material Safety Data Sheet (MSDS) is for guidance and is based upon information and tests

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