

**Section A8**

**Measures necessary to protect man, animals and the environment**

Official  
use only

**Subsection  
(Annex Point)**

- 8.1 Recommended methods and precautions concerning handling, use, storage, transport or fire (IIA8.1)**
- 8.1.0 Methods and precautions concerning placing on the market** Not applicable.
- 8.1.1 Methods and precautions concerning production, handling and use of the active substance**
- In the following only the active substance as manufactured is described. For Exposure controls/Personal protection during handling and use of propan-1-ol containing formulations/products see the respective documents Doc IIIB8.
- Advice on safe handling**  
It is recommended to provide adequate ventilation/extraction system exhaust on the workplace, so that the exposure limit of propan-1-ol will be kept.  
When using, do not eat, drink or smoke. Avoid contact with eyes.
- Advice on protection against fire and explosion**  
Keep product and empty container away from heat and sources of ignition. Do not smoke - volatile. Take precautionary measures against static discharges. Do not spray on a naked flame or any other incandescent material.
- Personal protective equipment**
- Respiratory protection:  
If ventilation is inadequate wear respiratory protection. [Gas filter for gases/vapours of organic compounds (boiling point >65 °C, e. g. EN 14387 Type A)]
- Hand protection:  
In case of repeated (approx. 50 times/ day) or prolonged (>30 min) exposure it is recommended to use chemical resistant protective gloves (EN 374)
- Eye protection:  
If exposure to the eye can not be excluded wear tightly fitting safety goggles (splash goggles) (e.g. EN 166)
- Body protection:  
It is recommended to use body protection depending on activity and possible exposure, e.g. apron, protecting boots, chemical-protection suit (according to DIN-EN 465).
- General safety and hygiene measures:  
It is recommended to handle in accordance with good industrial hygiene and safety practice. Wearing of closed work clothing is

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- recommended additionally to the stated personal protection equipment. Avoid inhalation of vapour in high concentration.
- 8.1.2 Methods and precautions concerning storage of the active substance and its formulations**
- Requirements for storage rooms and vessels**  
Keep container tightly closed in a dry, cool and well-ventilated place. Pay attention to anti-explosion rules.
- Advice on storage compatibility**  
Incompatible with: oxidizing agents, alkaline metals and earth alkaline metals.
- Further information on storage conditions**  
Keep away from food, drink and animal feeding stuffs.  
Storageclass (VCI): 3 A
- 8.1.3 Methods and precautions concerning transport of the active substance and its formulations**
- Land transport (ADR/RID)**  
ADR/RID: 3  
UN number: 1274  
ADR packaging group: III  
Description of the goods: PROPANOL (PROPYL ALCOHOL, NORMAL)
- Marine transport**  
IMDG-Code: 3  
UN number: 1274  
Packaging group: III  
Marine pollutant: No  
Exact technical name: PROPANOL (PROPYL ALCOHOL, NORMAL)
- Air transport**  
ICAO/IATA-DGR: 3  
UN/ID number: 1274  
ICAO-packaging group: III  
Exact technical name: PROPANOL (PROPYL ALCOHOL, NORMAL)
- 8.1.4 Methods and precautions concerning fire of the active substance and its formulations**
- Suitable extinguishing media**  
Alcohol-resistant foam, dry chemical, carbon dioxide (CO<sub>2</sub>), water-spray
- Extinguishing media that must not be used for safety reasons**  
Full water jet
- Special protective equipment for firefighters**  
Use breathing apparatus with independent air supply.
- 8.2**
- In case of fire, nature of reaction products, combustion gases, etc. (IIA8.2)**  
Fire may produce: Carbon monoxide and carbon dioxide.
- 8.3**
- Emergency measures in case of an accident (IIA8.3)**
- 8.3.1 Specific treatment**
- General information**  
Remove contaminated soaked clothing immediately.

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<p><b>in case of an accident, e.g. first-aid measures, antidotes, medical treatment if available</b></p>	<p>If you feel unwell, seek medical advice.</p> <p><b><u>After inhalation</u></b> In the event of symptoms move to fresh air and refer for medical treatment.</p> <p><b><u>After contact with eyes</u></b> Rinse thoroughly with plenty of water, also under the eyelids. If eye irritation persists, consult a specialist.</p> <p><b><u>After ingestion</u></b> Drink plenty of water. Contact a doctor immediately. Induce vomiting only upon the advice of a physician. Attention! Beware, danger of aspiration!</p>
<p><b>8.3.2 Emergency measures to protect the environment</b></p>	<p>Not necessary because of ready biodegradability.</p>
<p><b>8.4</b></p>	<p><b>Possibility of destruction or decontamination following release in or on the following: (a) Air; (b) Water, including drinking water; (c) Soil (IIA8.4)</b></p>
<p><b>8.4.1 Possibility of destruction or decontamination following release in the air</b></p>	<p>Not applicable. In case that large amounts of propan-1-ol evaporate, ensure adequate ventilation and keep away sources of ignition.</p>
<p><b>8.4.2 Possibility of destruction or decontamination following release in water, including drinking water</b></p>	<p>Propan-1-ol is classified to water contaminating class: 1 - slightly water contaminating. The product is miscible in water, decontamination is not possible. However, propan-1-ol is volatile and readily biodegradable.</p>
<p><b>8.4.3 Possibility of destruction or decontamination following release in or on soil</b></p>	<p>Decontamination of soil is not necessary due to ready biodegradability.</p>
<p><b>8.5</b></p>	<p><b>Procedures for waste management of the active substance for industry or professional users e.g. possibility of re-use or recycling, neutralisation, conditions for controlled discharge, and incineration (IIA8.5)</b></p>
<p><b>8.5.1 Possibility of re-use or recycling</b></p>	<p>Small amounts of propan-1-ol may be recycled by distillation (very uneconomic).</p>
<p><b>8.5.2 Possibility of neutralisation of effects</b></p>	<p>The biocidal effects of propan-1-ol may be neutralised by dilution with water.</p>
<p><b>8.5.3 Conditions for</b></p>	<p>As propan-1-ol is highly inflammable it is classified as "requiring</p>

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**controlled discharge including leachate qualities on disposal**

special supervision", that is as hazardous waste. Waste disposal code: 070604.

Contaminated packaging is to be treated in the same way as the product. If there are no official regulations, non-contaminated and completely empty packaging can be treated in the same way as household refuse or recycled.

**8.5.4 Conditions for controlled incineration**

Propan-1-ol is highly inflammable. It may be used as fuel.

**8.6**

**Observations on undesirable or unintended side-effects, e.g. on beneficial and other non-target organisms (IIA8.6)**

**Man:**

**Inhalation:**

Inhalation of vapours in high concentration can cause narcotic effects.

**Skin contact:**

Repeated (approx. 50 times/ day) or prolonged (>30 min) exposure may cause skin irritation, due to degreasing properties of the product. The application of skin caring hand creams is recommended in such cases.

**Oral intake:**

In case of inadvertant ingestion, propan-1-ol is rapidly absorbed. Depending on the amount of product ingested, the person may suffer from symptoms comparable to acute alcohol poisoning which should be treated accordingly.

**Eye contact:**

Contact with eyes may cause severe irritation.

**Non-target organisms:**

Propan-1-ol is intended to act non-specifically on all kinds of micro-organisms. At use concentration it is reasonable to assume that propan-1-ol may be harmful to plants and may have effects on animals similarly as man.

**8.7**

**Identification of any substances falling within the scope of List I or List II of the Annex to Directive 80/68/EEC on the protection of groundwater against pollution caused by certain dangerous substances (IIA8.7)**

Not applicable, as the active substance is volatile and readily biodegradable.

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<b>Evaluation by Competent Authorities</b>	
<i>Use separate "evaluation boxes" to provide transparency as to the comments and views submitted</i>	
<b>EVALUATION BY RAPPORTEUR MEMBER STATE</b>	
<b>Date</b>	2008-09-11
<b>Materials and methods</b>	Recommendations about protective measures are given on the basis of expert judgement. Any results of studies about e.g. the effectiveness of PPE are not reported by the participant.
<b>Results and discussion</b>	
<b>Conclusion</b>	Additional information about protective measures has to be given by the participant.
<b>Reliability</b>	Not applicable
<b>Acceptability</b>	Acceptable but incomplete
<b>Remarks</b>	
<b>8.1.1 Methods and precautions concerning production, handling and use of the active substance</b>	*1 The information about engineering measures (adequate ventilation/extraction system exhaust) is not provided in the necessary quality. More information is necessary e.g. the air changing rate at the workplace. *2 The information about PPE is not provided in the necessary quality. For this precaution specifications about kind and quality are not given. The PPE has to be described more detailed, e. g. the material, the thickness and the penetration time of the gloves (EN 374) and the material of the work clothing.
<b>8.1.4 Methods and precautions concerning fire</b>	*3 The PPE is described in general terms. Quality standards are not provided by the participant.
<b>COMMENTS FROM ...</b>	
<b>Date</b>	<i>Give date of comments submitted</i>
<b>Results and discussion</b>	<i>Discuss additional relevant discrepancies referring to the (sub)heading numbers and to applicant's summary and conclusion. Discuss if deviating from view of rapporteur member state</i>
<b>Conclusion</b>	<i>Discuss if deviating from view of rapporteur member state</i>
<b>Reliability</b>	<i>Discuss if deviating from view of rapporteur member state</i>
<b>Acceptability</b>	<i>Discuss if deviating from view of rapporteur member state</i>
<b>Remarks</b>	