

Material Safety Data Sheet

Alcosol PI

Version 1.01

Revision Date 18.10.2006



1. Identification of the substance/preparation and of the company/undertaking

Trade name	<i>Alcosol PI</i>
Synonyms	<i>Alcosol PI</i>
Use	<i>Solvents, industrial use</i>
Company	<i>Hitech Chemicals</i>

2. Composition/information on ingredients

Preparation on the base:

ethanol; ethyl alcohol

content: 85.50 %W/W

CAS-No. 64-17-5

Symbol(s) F

Index-No. 603-002-00-5

R-phrase(s) -R11

EG-Nr.: 200-578-6

ethyl acetate

content: 10.00 %W/W

CAS-No. 141-78-6

Symbol(s) F, Xi

Index-No. 607-022-00-5

R-phrase(s) -R11 -R36 -R66 -R67

EG-Nr.: 205-500-4

propan-2-ol; isopropyl alcohol; isopropanol

content: 3.60 %W/W

CAS-No. 67-63-0

Symbol(s) F, Xi

Index-No. 603-117-00-0

R-phrase(s) -R11 -R36 -R67

EG-Nr.: 200-661-7

For the full text of the R phrases mentioned in this Section, see Section 16.

Material Safety Data Sheet

Alcosol PI

Version 1.01

Revision Date 18.10.2006



3. Hazards identification

Identification of the risks

R11 Highly flammable.
R67 Vapours may cause drowsiness and dizziness.

4. First aid measures

Inhalation Move to fresh air in case of accidental inhalation of vapours. If breathing is irregular or stopped, administer artificial respiration. Obtain medical attention.

Skin contact Wash off immediately with plenty of water for at least 15 minutes. If symptoms persist, call a physician.

Eye contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses. If eye irritation persists, consult a specialist.

Ingestion Do not induce vomiting without medical advice. If symptoms persist, call a physician.

5. Fire-fighting measures

Suitable extinguishing media Alcohol-resistant foam, Water spray, Dry powder

Specific hazards during fire fighting Flash back possible over considerable distance.

Special protective equipment for fire-fighters Wear self-contained breathing apparatus and protective suit.

Further information Cool containers / tanks with water spray.

6. Accidental release measures

Personal precautions Keep people away from and upwind of spill/leak. Remove all sources of ignition. Do not breathe vapours or spray mist.

Environmental precautions Prevent product from entering drains. Prevent further leakage or spillage if safe to do so.

Methods for cleaning up Soak up with inert absorbent material and dispose of as hazardous waste.

Additional advice Never return spills in original containers for re-use.

Material Safety Data Sheet

Alcosol PI

Version 1.01

Revision Date 18.10.2006



7. Handling and storage

Handling

Safe handling advice Avoid inhalation of vapour or mist. Provide sufficient air exchange and/or exhaust in work rooms. Wear personal protective equipment.

Advice on protection against fire and explosion Keep away from heat and sources of ignition. Use only explosion-proof equipment.

Storage

Requirements for storage areas and containers Keep containers tightly closed in a dry, cool and well-ventilated place.

8. Exposure controls / personal protection

Components with workplace control parameters

NATIONAL OCCUPATIONAL EXPOSURE LIMITS

EUROPEAN OCCUPATIONAL EXPOSURE LIMITS

Contains no substances with occupational exposure limit values.

Engineering measures

Provide sufficient air exchange and/or exhaust in work rooms.

Personal protective equipment

Respiratory protection In case of insufficient ventilation wear suitable respiratory equipment.

Hand protection gloves suitable for permanent contact:
Material: butyl-rubber
Break through time: 4 h
Material thickness: 0.5 mm
unsuitable gloves
Material: leather, nitrile rubber/nitrile latex, Polyvinylchloride, natural rubber/natural latex

Eye protection Safety glasses with side-shields

Skin and body protection protective suit, Safety shoes

Hygiene measures Wash hands before breaks and immediately after handling the product.

Protective measures Wear suitable protective equipment.

Material Safety Data Sheet

Alcosol PI

Version 1.01

Revision Date 18.10.2006



9. Physical and chemical properties

Form	liquid
state of matter	liquid
Colour	colourless
Odour	alcoholic
pH	7
Melting point/range	-83.6 °C
Boiling point/range	76 °C
Flash point	9 °C
Density	0.800 g/cm ³
Viscosity, dynamic	2.4 mPa.s
Relative vapour density	3.04

10. Stability and reactivity

Materials to avoid	Oxidizing agents, Reducing agents
Hazardous decomposition products	Carbon oxides

11. Toxicological information

Acute oral toxicity	Ethanol: LD50 rat: 7,060 mg/kg; literature value
	Ethyl Acetate: LD50 rat: 5,620 mg/kg; literature value
	Ethyl Acetate: LD50 rabbit: 4,940 mg/kg; literature value
Acute inhalation toxicity	Ethanol: LC50 rat: 66,000 mg/l; literature value; 4 h
	Ethyl Acetate: LC50 rabbit: 2,500 mg/l; literature value; 4 h
	Ethyl Acetate: LC50 rat: 4,000 mg/l; literature value; 4 h
Acute dermal toxicity	Ethanol: LDLo rabbit: 20,000 mg/kg; literature value

12. Ecological information

Ecotoxicity effects

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Material Safety Data Sheet

Alcosol PI

Version 1.01

Revision Date 18.10.2006



Toxicity to fish

Ethanol:

LC50 Pimephales promelas: 15,300 mg/l; 96 h; literature value

Ethyl acetate:

LC50 Pimephales promelas: 230 mg/l; 96 h; literature value

13. Disposal considerations

Product

Dispose of in accordance with local regulations.

Contaminated packaging

Store containers and offer for recycling of material when in accordance with the local regulations.

14. Transport information

ADR

UN-No.: 1993; Class: 3; Packaging group: II; F1; Description of the goods: FLAMMABLE LIQUID, N.O.S. (ethanol, ethyl acetate)

RID

UN-No.: 1993; Class: 3; Packaging group: II; F1; Description of the goods: FLAMMABLE LIQUID, N.O.S. (ethanol, ethyl acetate)

ADNR

UN-No.: 1993; Class: 3; Packaging group: II; F1; Description of the goods: FLAMMABLE LIQUID, N.O.S. (ethanol, ethyl acetate)

IMDG

UN-No.: 1993; Class: 3; EmS: F-E, S-E; Packaging group: II; Description of the goods: FLAMMABLE LIQUID, N.O.S. (ethanol, ethyl acetate)

ICAO/IATA

UN-No. : 1993; Class: 3; Packaging group: II; Description of the goods: Flammable liquid, n.o.s. (ethanol, ethyl acetate)

15. Regulatory information

Labelling





Material Safety Data Sheet

Alcosol PI

Version 1.01

Revision Date 18.10.2006

Regulatory base	1999/45/EC
Symbol(s)	F: Highly flammable
R-phrases(s)	R11: Highly flammable. R67: Vapours may cause drowsiness and dizziness.
S-phrase(s)	S 9: Keep container in a well-ventilated place. S16: Keep away from sources of ignition - No smoking. S33: Take precautionary measures against static discharges. S60: This material and its container must be disposed of as hazardous waste.

16. Other information

Full text of R-phrases referred to under sections 2 and 3

R11	Highly flammable.
R36	Irritating to eyes.
R66	Repeated exposure may cause skin dryness or cracking.
R67	Vapours may cause drowsiness and dizziness.

This MSDS summarises at the date of issue our best knowledge of the health, safety and environmental hazard information related to the product, and in particular how to safely handle, use, store and transport the product in the workplace. Since we cannot anticipate or control conditions under which the product may be handled, used, stored or transported, each user must, prior to usage, review this MSDS in the context of how the user intends to handle, use, store or transport the product in the workplace and beyond, and communicate such information to all relevant parties. If clarification or further information is needed to ensure that an appropriate assessment can be made, the user should contact this company.

We shall not assume any liability for the accuracy or completeness of the information contained herein or any advice given unless there has been gross negligence on our part. In such event our liability shall be limited only to direct damages suffered. Our responsibility for product as sold is subject to our standard terms and conditions, a copy of which is sent to our customers and is also available upon request. All risk associated with the possession and application of the product passes on delivery.

The MSDS was created by:

The MSDS was approved by: