

# Material Safety Data Sheet

## Alcosol 5

Version 1.05

Revision Date 29.01.2007



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

<b>Trade name</b>	<i>Alcosol 5</i>
<b>Synonyms</b>	<i>Alcosol 5</i>
<b>Use</b>	<i>Solvents, Paint related material</i>
<b>Company</b>	<i>Hitech Chemicals</i>

### 2. Composition/information on ingredients

#### *Preparation on the base:*

*ethanol; ethyl alcohol*

*content: 89.95 %W/W*

**CAS-No.** 64-17-5

**Symbol(s)** F

**Index-No.** 603-002-00-5

**R-phrase(s)** -R11

**EC-No.** 200-578-6

*propan-2-ol; isopropyl alcohol; isopropanol*

*content: 4.25 %W/W*

**CAS-No.** 67-63-0

**Symbol(s)** F, Xi

**Index-No.** 603-117-00-0

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

**EC-No.** 200-661-7

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

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### 3. Hazards identification

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#### Identification of the risks

R11 Highly flammable.

### 4. First aid measures

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<b>General advice</b>	When symptoms persist or in all cases of doubt seek medical advice.
<b>Inhalation</b>	Move to fresh air in case of accidental inhalation of vapours. If breathing is irregular or stopped, administer artificial respiration. In case of shortness of breath, give oxygen. Call a physician immediately.
<b>Skin contact</b>	Wash off immediately with plenty of water for at least 15 minutes. Call a physician immediately.
<b>Eye contact</b>	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Call a physician immediately.
<b>Ingestion</b>	If swallowed, seek medical advice immediately and show this container or label. Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person.

### 5. Fire-fighting measures

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<b>Suitable extinguishing media</b>	Water spray, Dry powder, Alcohol-resistant foam
<b>Specific hazards during fire fighting</b>	Flash back possible over considerable distance.
<b>Special protective equipment for fire-fighters</b>	Wear self-contained breathing apparatus and protective suit.
<b>Further information</b>	Cool containers / tanks with water spray.

### 6. Accidental release measures

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<b>Personal precautions</b>	Keep people away from and upwind of spill/leak. Remove all sources of ignition. Do not breathe vapours or spray mist.
<b>Environmental precautions</b>	Should not be released into the environment. Prevent further leakage or spillage if safe to do so.
<b>Methods for cleaning up</b>	Soak up with inert absorbent material and dispose of as

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hazardous waste.

### 7. Handling and storage

#### Handling

**Safe handling advice** 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 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** Respirator with a vapour filter (EN 141)

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

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### 9. Physical and chemical properties

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<b>Form</b>	liquid
<b>Colour</b>	clear, colourless
<b>Odour</b>	alcoholic
<b>pH</b>	neutral
<b>Melting point/range</b>	-88.5 °C
<b>Boiling point/range</b>	77 °C
<b>Flash point</b>	3 °C; closed cup
<b>Autoignition temperature</b>	288 °C
<b>Lower explosion limit</b>	3.3 %(V)
<b>Upper explosion limit</b>	19 %(V)
<b>Vapour pressure</b>	54.9 hPa
<b>Density</b>	0.789 g/cm <sup>3</sup> ; 20 °C
<b>Water solubility</b>	soluble
<b>Solubility in other solvents</b>	Medium: Diethylether; soluble
<b>Viscosity, dynamic</b>	36.1 mPa.s
<b>Relative vapour density</b>	2.6(Air = 1.0)

### 10. Stability and reactivity

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**Materials to avoid** Oxidizing agents

### 11. Toxicological information

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<b>Acute oral toxicity</b>	LD50 rat: 790 mg/kg;
<b>Acute oral toxicity</b>	Ethanol: LD50 rat: 7,060 mg/kg; literature value
	Isopropyl alcohol: LD50 rat: 5,045 mg/kg; literature value
	Isopropyl alcohol: LD50 rabbit: 6,410 mg/kg; literature value
<b>Acute inhalation toxicity</b>	Ethanol: LC50 rat: 66,000 mg/l; literature value; 4 h
	Isopropyl alcohol: LC50 rat: 16,000 mg/l; literature value; 8 h
<b>Acute dermal toxicity</b>	LD50 rabbit: > 3,000 mg/kg;

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### Acute dermal toxicity

Ethanol:

LDLo rabbit: 20,000 mg/kg; literature value

Isopropyl alcohol:

LD50 rabbit: 12,800 mg/kg; literature value

## 12. Ecological information

### Ecotoxicity effects

#### Toxicity to fish

Ethanol:

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

Isopropyl alcohol:

LC50 Poecilia reticulata: 7,060 mg/l; 7 d; literature value

Isopropyl alcohol:

LC50 Pimephales promelas: 9,640 mg/l; 96 h; literature value

## 13. Disposal considerations

#### Product

Dispose of as special waste in compliance with local and national regulations.

#### Contaminated packaging

Contaminated packaging should be emptied optimally and after being suitably cleaned returned for re-use., Store containers and offer for recycling of material when in accordance with the local regulations.

## 14. Transport information

#### ADR

UN-No.: 1987; Class: 3; Packaging group: II; F1; Description of the goods: ALCOHOLS, N.O.S. (ethanol)

#### RID

UN-No.: 1987; Class: 3; Packaging group: II; F1; Description of the goods: ALCOHOLS, N.O.S. (ethanol)

#### ADNR

UN-No.: 1987; Class: 3; Packaging group: II; F1; Description of the goods: ALCOHOLS, N.O.S. (ethanol)

#### IMDG

UN-No.: 1987; Class: 3; EmS: F-E, S-D; Packaging group: II; Description of the goods: ALCOHOLS, N.O.S. (ethanol)

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ICAO/IATA

UN-No. : 1987; Class: 3; Packaging group: II; Description of the goods: Alcohols, n.o.s. (ethanol)

### 15. Regulatory information

#### Labelling



Regulatory base

1999/45/EC

Symbol(s)

F: Highly flammable

R-phrase(s)

R11: Highly flammable.

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.

R67

Vapours may cause drowsiness and dizziness.



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*All reasonable efforts were exercised to compile this MSDS in accordance with ISO 11014 and ANSIZ400.1.1993. The MSDS provides information regarding the health, safety and environmental hazards, at the date of issue, to facilitate the safe receipt, use and handling of the product in the workplace. Since we cannot anticipate or control all conditions under which the product may be handled, used and received in the workplace, it remains the obligation of each user, receiver or handler to, prior to usage, review this MSDS in the context within which the product will be received, handled or used in the workplace. The user, handler or receiver must ensure that the necessary mitigating measures are in place as regards health and safety. This does not substitute the need or requirement for any relevant risk assessments to be conducted. It further remains the responsibility of the receiver, handler or user to communicate such information to all relevant parties that may be involved in the receipt, use or handling of the product.*

*Although all reasonable efforts were exercised in the compilation of this MSDS, we do not expressly warrant the accuracy or assume any liability for the incompleteness of the information contained herein or any advice given. The product is sold and risk passes in accordance with the specific terms and conditions of sale.*

*The MSDS was created by:*

*The MSDS was approved by:*