

Material Safety Data Sheet

Ethanol 94/M6

Version 1.04

Revision Date 23.10.2006



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

Trade name	Ethanol 94/M6
Synonyms	Ethanol 94/M6
Use	Solvents, raw material for cosmetic agents, raw material for pharmaceutical products, raw material for printing inks and printing ink additives
Company	Hitech Chemicals

2. Composition/information on ingredients

ethanol; ethyl alcohol
content: 94.00 %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

methanol
content: 6.00 %W/W

CAS-No. 67-56-1
Symbol(s) F, T

Index-No. 603-001-00-X
R-phrase(s) -R11 -R23/24/25 -R39/23/24/25

EG-Nr.: 200-659-6

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

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3. Hazards identification

Identification of the risks

R11	Highly flammable.
R20/21/22	Harmful by inhalation, in contact with skin and if swallowed.
R68/20/21/22	Harmful: possible risk of irreversible effects through inhalation, in contact with skin and if swallowed.

4. First aid measures

General advice	When symptoms persist or in all cases of doubt seek medical advice.
Inhalation	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.
Skin contact	Wash off immediately with plenty of water for at least 15 minutes. Call a physician immediately.
Eye contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Call a physician immediately.
Ingestion	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

Suitable extinguishing media	Water spray, Dry powder, Alcohol-resistant foam
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	Should not be released into the environment. Prevent further

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precautions leakage or spillage if safe to do so.
Methods for cleaning up Soak up with inert absorbent material and dispose of as 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

Components	Type	Control parameters	Update	Basis
METHANOL	TWA TWA	260 mg/m ³ 200 ppm	05 2003 05 2003	EU Exposure Limit Values EU Exposure Limit Values

Engineering measures

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

Personal protective 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

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Hygiene measures	Wash hands before breaks and immediately after handling the product.
Protective measures	Wear suitable protective equipment.

9. Physical and chemical properties

Form	liquid
state of matter	liquid; at 1,013 hPa
Colour	clear, colourless
Odour	pungent alcoholic
Melting point/range	-97.8 °C
Boiling point/range	77 °C
Flash point	13.5 °C; closed cup
Autoignition temperature	363 °C
Lower explosion limit	6 %(V)
Upper explosion limit	36.5 %(V)
Density	0.789 g/cm ³ ; 20 °C
Water solubility	completely miscible, completely soluble
Solubility in other solvents	Medium: methanol; soluble
Viscosity, dynamic	61.4 mPa.s
Relative vapour density	1.6

10. Stability and reactivity

Materials to avoid	Oxidizing agents
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11. Toxicological information

Acute oral toxicity	Ethanol: LD50 rat: 7,060 mg/kg; literature value Methanol: LD50 rat: 5,628 mg/kg;
Acute inhalation toxicity	Ethanol: LC50 rat: 66,000 mg/l; literature value; 4 h
Acute dermal toxicity	Ethanol: LDLo rabbit: 20,000 mg/kg; literature value Methanol:

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LD50 rabbit: 15,800 mg/kg;

12. Ecological information

Ecotoxicity effects

Toxicity to fish

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

Methanol:
LC50 *Pimephales promelas*: 29.4 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.: 1170; Class: 3; Packaging group: II; F1; Description of the goods: ETHANOL

RID

UN-No.: 1170; Class: 3; Packaging group: II; F1; Description of the goods: ETHANOL

ADNR

UN-No.: 1170; Class: 3; Packaging group: II; F1; Description of the goods: ETHANOL

IMDG

UN-No.: 1170; Class: 3; EmS: F-E, S-D; Packaging group: II; Description of the goods: ETHANOL

ICAO/IATA

UN-No. : 1170; Class: 3; Packaging group: II; Description of the goods: Ethanol

15. Regulatory information

Labelling





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Regulatory base	1999/45/EC
Symbol(s)	F: Highly flammable Xn: Harmful
R-phrase(s)	R11: Highly flammable. R20/21/22: Harmful by inhalation, in contact with skin and if swallowed. R68/20/21/22: Harmful: possible risk of irreversible effects through inhalation, in contact with skin and if swallowed.
S-phrase(s)	S 9: Keep container in a well-ventilated place. S16: Keep away from sources of ignition - No smoking. S23: Do not breathe gas/fumes/vapour/spray. S33: Take precautionary measures against static discharges. S60: This material and its container must be disposed of as hazardous waste. S 3/7: Keep container tightly closed in a cool place. S36/37: Wear suitable protective clothing and gloves.
Hazardous components which must be listed on the label	methanol

16. Other information

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

R11	Highly flammable.
R20/21/22	Harmful by inhalation, in contact with skin and if swallowed.
R23/24/25	Toxic by inhalation, in contact with skin and if swallowed.
R39/23/24/25	Toxic: danger of very serious irreversible effects through inhalation, in contact with skin and if swallowed.
R68/20/21/22	Harmful: possible risk of irreversible effects through inhalation, in contact with skin and if swallowed.

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.

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The MSDS was created by:
The MSDS was approved by: