

5. FIRE-FIGHTING MEASURES

EXTINGUISHING MEDIA

Use: Alcohol resistant foam. Dry chemicals, sand, dolomite etc. Water spray, fog or mist.

SPECIAL FIRE FIGHTING PROCEDURES

Use water spray to cool fire-exposed containers.

6. ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS

Wear protective clothing as described in Section 8 of this safety data sheet.

SPILL CLEAN UP METHODS

Extinguish all ignition sources. Avoid sparks, flames, heat and smoking. Ventilate. Absorb in vermiculite, dry sand or earth and place into containers. Flush area with water. Do not let washing down water contaminate ponds or waterways.

7. HANDLING & STORAGE

USAGE PRECAUTIONS

Keep away from heat, sparks and open flame. Avoid spilling, skin and eye contact. Risk of vapour concentration on the floor and in low-lying areas. Static electricity and formation of sparks must be prevented.

STORAGE PRECAUTIONS

Store in tightly closed original container in a cool, dry well-ventilated place.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Name	Std	8h TWA		STEL	
METHANOL	WEL (skin)	200 ppm	260 mg/m ³	250 ppm	310 mg/m ³
ETHANOL	WEL	1000 ppm	1900 mg/m ³		

WEL – Workplace Exposure Limit; 8h TWA – 8-hour Time-Weighted Average; STEL – Short-Term EL.

PROTECTIVE EQUIPMENT



ENGINEERING MEASURES

Well-ventilated area. Provide explosion proof ventilation for high concentrations.

HAND PROTECTION

For prolonged or repeated skin contact use suitable protective gloves. The most suitable glove must be chosen in consultation with the glove supplier, who can inform about the breakthrough time of the glove material.

EYE PROTECTION

Wear approved, tight fitting safety glasses where splashing is probable.

HYGIENE MEASURES

DO NOT SMOKE IN WORK AREA! Wash at the end of each work shift and before eating, smoking and using the toilet. Promptly remove any clothing that becomes contaminated. Wash promptly with soap & water if skin becomes contaminated.

9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE	Violet Liquid
ODOUR	Slightly alcoholic.
SOLUBILITY	Soluble in water
BOILING POINT	~ 95°C 760 mm Hg
RELATIVE DENSITY	~ 0.98 @ 20°C

10. STABILITY AND REACTIVITY**STABILITY**

Stable under normal temperature conditions and recommended use.

11. TOXICOLOGICAL INFORMATION**INHALATION**

Harmful by inhalation. Harmful: danger of serious damage to health by prolonged exposure through inhalation.

INGESTION

Harmful if swallowed. Harmful: danger of serious damage to health by prolonged exposure if swallowed.

SKIN CONTACT

Harmful in contact with skin. Harmful: danger of serious damage to health by prolonged exposure in contact with skin.

EYE CONTACT

Harmful. Contact with concentrated chemical may very rapidly cause severe eye damage, possibly loss of sight.

12. ECOLOGICAL INFORMATION**ECOTOXICITY**

Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

13. DISPOSAL CONSIDERATIONS**DISPOSAL METHODS**

Dispose of waste and residues in accordance with local authority requirements.

14. TRANSPORT INFORMATION

**RID / ADR**

UN#	1170
Class	3
PG	III
Proper shipping name:	Ethanol Solution

IMDG

UN#	1170
Class	3
PG	III
Proper shipping name:	Ethanol Solution
Marine Pollutant:	No

IATA

UN#	1170
Class	3
PG	III
Proper shipping name:	Ethanol Solution

15. REGULATORY INFORMATION

LABELLING



Harmful

RISK PHRASES

R10	Flammable
R20/21/22	Harmful by inhalation, in contact with skin and if swallowed
R41	Risk of serious damage to eyes
R52/53	Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

SAFETY PHRASES

S26	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice
S36/37/39	Wear suitable protective clothing, gloves and eye/face protection
S60	This material and its container must be disposed of as hazardous waste.
S61	Avoid release to the environment. Refer to special instructions/safety data sheet

STATUTORY INSTRUMENTS

Control of Substances Hazardous to Health. Chemicals (Hazard Information and Packaging) Regulations.

GUIDANCE NOTES

CHIP for everyone HSG(108). Workplace Exposure Limits EH40.

16. OTHER INFORMATION**GENERAL INFORMATION**

This safety data sheet covers all codes for this product.

REVISION COMMENTS

Revision of R & S Phrases

REVISION DATE

02-2011

REV. NO./REPL. SDS GENERATED

5 / 06-2009

RISK PHRASES IN FULL

R10	Flammable
R11	Highly flammable
R20/21/22	Harmful by inhalation, in contact with skin and if swallowed
R22	Harmful 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
R40	Limited evidence of a carcinogenic effect
R41	Risk of serious damage to eyes
R50/53	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment
R52/53	Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment