

**SAFETY DATA SHEET: HYDRO-NITE**

Compiled in conformity with appendix II to Reg.1907/2006
and with directive 67/548/EEC

1. Identification of the substance or preparation

1.1 Identification of the preparation	
Trade name:	Hydro-nite
Description	Sodium borohydride solution in alkaline environment.
1.2 Use of the preparation	
Main use	Use as source of hydrogen
Known uses	Sodium borohydride solutions are used as reducing agents for organic compounds; to work in non-polar solvents, they need cationic surfactants which increase their solubility. Also used in cycles to recover certain precious metals, as a foaming agent, in plastic blown film extrusion and as an analytical reagent.
1.3 Identification of the company	
Marketed by (company name and address)	Morphic Exergy s.r.l. via B. Buozzi, 53-55-57 I - 40057 Cadriano - Granarolo dell'Emilia (Bo) Italy Telefono: +39 051 6751129 e-mail: info@exeryfuelcells.com
1.4 Emergency number	
Centro AntiVeleni (poison control centre) Niguarda	+39 02 66101029

2. Hazards identification

2.1 Product classification according to directives 67/548/EEC and 1999/45/EC	
Hazard level	Hazardous preparation according to directive 1999/45/EC
Type of hazard	Corrosive (contains more than 5 % NaOH); Harmful in contact with skin and if swallowed; R35 (Causes severe burns); In use may form flammable/explosive vapour-air mixture.



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Harmful effects on human health or on the environment	Causes severe burns on contact with skin; is extremely corrosive for skin, eyes and mucosa. Can destroy tissues with serious consequences. May cause damage to sight on contact with eyes, even to the point of blindness. May splash. On contact with acids, the reaction is highly exothermic and on contact with acids or metals may generate highly flammable gases (hydrogen).
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3. Composition and information on ingredients

3.1 Product classification according to directives 67/548/EEC and 1999/45/EC					
Name	Formula	EC	CAS	% in preparation	classification
Sodium hydroxide	NaOH	215-185-5	1310-73-2	20 ÷ 30 % pbw	C; R35
Sodium borohydride	NaBH ₄	241-004-4	16940-66-2	5 ÷ 10 % pbw	T,F; R14/15, R24/25, R34

4. First aid measures

4.1 First aid measures	
Inhalation	Move to fresh air. Give artificial respiration if breathing has stopped. Immediate medical attention is required.
Skin contact	IMMEDIATELY get under a safety shower. Remove contaminated clothing. Wash off immediately with plenty of water. Immediate medical attention is required. Wash contaminated clothing before re-use. Do not take clothing home to be laundered.
Ingestion	Call a physician immediately. Immediately give large quantities of water to drink. Do NOT induce vomiting. If vomiting occurs spontaneously, keep airway clear. If possible drink milk afterwards. Never give anything by mouth to an unconscious person. NOTE: This is a corrosive material. Do not administer any other first aid before obtaining the advice of a physician.



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Eye contact	Immediately flush eye(s) with plenty of water. Immediate medical attention is required.
Notes to physician	MATERIAL IS CORROSIVE. It may not be advisable to induce vomiting. Possible mucosal damage may contraindicate the use of gastric lavage. Measures against circulatory shock and convulsions may be necessary.

5. Fire fighting measures

5.1 Fire-fighting measures	
Suitable extinguishing media	Dry chemical, carbon dioxide, halogenated hydrocarbon extinguishers or dry.
Extinguishing media not be used for safety reasons	Water, foam extinguishers.
Specific hazards during fire fighting	The product itself does not burn. Heat or strong acids can form hydrogen gas. Hydrogen is extremely flammable and can form explosive mixtures with air. If water is used to extinguish the fire, the resulting water may be corrosive.
Special protective equipment for fire-fighters	Wear self-contained breathing apparatus and protective suit.
Further information	MATERIAL IS CORROSIVE. If exposed to material as is or mixed with run-off water during fire-fighting, IMMEDIATELY remove all contaminated clothing and wash exposed skin areas with soap and water. See SECTION 4, First Aid Measures, for further information. DO NOT use water to cool containers. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.



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6. Accidental release measures

6.1 Accidental release measures	
Personal precautions	<p>Avoid all contact.</p> <p>Evacuate personnel to safe areas.</p> <p>Use personal protective equipment.</p> <p>Refer to protective measures listed in sections 7 and 8.</p> <p>If exposed to material during clean-up operations, see SECTION 4, First Aid Measures, for actions to follow.</p> <p>Material can create slippery conditions.</p> <p>MATERIAL IS CORROSIVE. If exposed to material during clean-up operations, IMMEDIATELY remove all contaminated clothing and wash exposed skin areas with soap and water.</p> <p>See SECTION 4, First Aid Measures, for further information.</p>
Environmental precautions	<p>Do not discharge into groundwater or surface water. In case of accidental spill into any body of water, contact the competent authorities. Also refer to sections 8 and 13.</p>
Methods for cleaning up	<p>Keep spectators away.</p> <p>Contain spills immediately with inert materials (e.g., sand, earth).</p> <p>Transfer liquids and solid diking material to separate suitable containers for recovery or disposal.</p>

7. Handling and storage

7.1 Handling	
Workplace	<p>Causes severe eye/skin burns. Do not breathe vapours or spray mist. Wear suitable protective equipment. Avoid contact with skin, eyes and clothing. Keep in a restricted area off limits to unauthorized personnel. Employ corrosion-resistant shelving and flooring.</p>
Further information on storage conditions:	<p>Store between 18 °C (64 °F) and 38 °C (100 °F).</p>



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Advice on protection against fire and explosion	CONTAINERS MAY BE HAZARDOUS WHEN EMPTY. Since emptied containers retain product residue follow all MSDS and label warnings even after container is emptied.
7.2 Storage	
Storage conditions	Keep containers tightly closed in a dry, cool and well-ventilated place. Do not store near acids. Keep away from food, drink and animal feeding stuffs. Store at room temperature in the original container. Do not store this material in containers made of the following: glass, Aluminium. Electrically bond and ground all containers and equipment before transfer or use of material. Crystallization temperature: 13 °C/55 °F.
Specific information	Sodium borohydride solutions can liberate flammable hydrogen gas upon contact with acids, oxidizing agents and transition metals or if diluted with large amounts of water. It is recommended that containers be checked periodically for pressure build up, which may occur during transport and long-term storage under adverse conditions. Allow 10 % free volume in closed containers. Use non-sparking tools and grounding cables when transferring.

8. Exposure control

8.1 Exposure limit values	
Sodium hydroxide:	European occupational exposure limit value: none. ACGIH: 2 mg/m ³ Ceiling NIOSH: 10 mg/m ³ IDLH OSHA Final PELs: 2 mg/m ³ TWA
Sodium borohydride	European occupational exposure limit value: none. ACGIH: 2 mg/m ³ TWA Inhalable fraction. ACGIH: 6 mg/m ³ STEL Inhalable fraction. Short-term occupational exposure value for borates: 0,5 mg/m ³ (8h).



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8.2 Exposure control	
Risk management measures	Protect eyes and skin.
8.3 Occupational exposure control	
Equipment and materials	Extraction hood. Do not use metal knives or other metal materials.
Collective and organizational protection measures	Use suitable ventilation systems to keep the level of product in the workplace low. Use the product under an extraction hood or with closed-loop systems. Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower.
PPE - respiratory system	Use certified respiratory protection equipment meeting EU requirements (89/656/EEC, 89/686/EEC), or equivalent, when respiratory risks cannot be avoided or sufficiently limited by technical means of collective protection or by measures, methods or procedures of work organization.
PPE - eyes	Chemical goggles and face shield. Eye protection worn must be compatible with respiratory protection system employed.
PPE - hands	Chemical-resistant gloves should be worn whenever this material is handled. Glove permeation data does not exist for this material. The following glove(s) should be used for splash protection only: butyl-rubber. Gloves should be removed and replaced immediately if there is any indication of degradation or chemical breakthrough. Rinse and remove gloves immediately after use. Wash hands with soap and water.
PPE - skin	Wear as appropriate: chemical resistant apron complete suit protecting against chemicals. Work clothing should be removed at the end of the shift and laundered by the employer.
8.4 Environmental exposure control	
Environmental protection	Do not discharge into any body of water. Dispose of separately.

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9. Physical and chemical properties

9.1 General information	
Appearance	Clear slight yellow liquid
Odour	Typical
9.2 Information regarding health, safety and the environment	
pH	Over 13
Boiling point/range:	120 ÷ 125 °C
Flash point	not applicable
Explosive properties	Contact with acids liberates potentially explosive gases.
Oxidizing properties	Not relevant
Vapour pressure	Not available
Density	1,24 g/cm ³ at 20 °C
Solubility	The sodium borohydride contained in the preparation is not soluble in non-polar solvents.
Solubility in water	Not relevant
Partition coefficient n-octanol / water	Not available
Viscosity	10,1 cP at 20 °C
9.3 Additional information	
miscibility	The solution is miscible in normal hydrophilic solvents
liposolubility	Not available
conductivity	Not determined
Melting point/range	Not applicable within operating temperature range
self-flammability temperature	Not relevant



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10. Stability and reactivity

10.1 Stability and reactivity	
Conditions that may generate a dangerous reaction	High temperatures, contact with acids, contact with metals, freezing
Materials to be avoided	Acids, metals, ammonium salts, peroxides
Dangerous products of decomposition	Hydrogen, Borax ($\text{Na}_2\text{B}_4\text{O}_7$) The solution is stable as long as it is kept in an alkaline environment.

11. Toxicological information

11.1 Toxicological information	
Toxicokinetic effects	Corrosive, causes skin burns and (possibly severe) eye damage. Causes severe burns to the digestive tract if swallowed.
Acute toxicity	NaOH: LD50 (oral, rat) 140-340 mg/kg LD50 (dermal, rabbit) 1.350 mg/kg RTECS #: WB4900000 NaBH ₄ : LD50 (oral, rat) 160 mg/kg RTECS #: ED3325000
Sensitization	No sensitizing effect known.
Toxicity at repeated doses	NaBH ₄ : repeated exposure can cause pulmonary oedema, circulatory collapse and unconsciousness.
CMR effects	None of the preparation's ingredients is deemed carcinogenic. Some <i>in vitro</i> studies have shown on occasion that sodium hydroxide has some mutagenic effects.



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12. Ecological information

12.1 Ecological information	
General information	The preparation is highly corrosive and, consequently, must not be discharged into surface water or groundwater.
Ecotoxicity	NaOH: LC50 (<i>Oncorhynchus mykiss</i> , fish, 96 h, pH8) 45,4 mg/l LC100 (<i>Daphnia magna</i> , aquatic invertebrate, pH 9.1 ÷ 9.5) 156 mg/l NaBH ₄ : LC50 (<i>Gambusia affinis</i> , fish, 96h) 5600 mg/l LC50 (<i>Gambusia affinis</i> , fish, 24h) 1800 mg/l
Mobility	Sodium borohydride is not volatile and is mobile (in oxidized form) mainly in soil, especially if rich in amorphous aluminium and iron hydroxides and oxides. In the air, it occurs only in atmospheric particulate matter and can be removed from the air, in oxide form, by water and moisture.
Persistence and biodegradability	Sodium borohydride forms stable complexes with oxygen.
Bioaccumulation potential	Not available
PBT assessment results	None of the preparation's ingredients is classified as PBT.
Other harmful effects	Breakdown products (hydrogen, sodium metaborate) can be toxic and ecotoxic.

13. Disposal considerations

13.1 Disposal considerations	
Disposal methods	For disposal, incinerate this material at a facility that complies with local, state, and federal regulations. The above recommendation covers disposal of material as supplied.



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Precautions for contaminated containers	CONTAINERS HAZARDOUS WHEN EMPTY. Dusts may exist in empty containers of this material which could ignite and explode if in contact with a source of ignition. Follow all MSDS and label warnings even after container is emptied.
European Waste Catalogue (2000/532/EC)	The definitive assignment of this material to the appropriate EWC group and thus its proper EWC code will depend on the use that is made of this material. Contact waste disposal services.

14. Transport information

14.1 Road or rail transport, ADR, RID	
UN Number	3266
Class	8
Proper shipping name	LIQUID INORGANIC, CORROSIVE, BASIC, N.O.S. (Sodium hydroxide, Sodium borohydride)
Packaging group	II
LQ	22
Tunnel restriction code	(E)
Danger number	80
14.2 Sea transport (IMO/IMDG Code)	
UN Number	3266
Class	8
Proper shipping name	LIQUID INORGANIC, CORROSIVE, BASIC, N.O.S. (Sodium hydroxide, Sodium borohydride)
Packaging group	II
Marine Pollutant	Yes
EmS code	F-A,S-B

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14.3 Air transport (ICAO-IATA)	
UN Number	3266
Class	8
Proper shipping name	LIQUID INORGANIC, CORROSIVE, BASIC, N.O.S. (Sodium hydroxide, Sodium borohydride)
Packaging group	II
Packaging Instruction	Passenger 808, Y808 Cargo 812
ERG Code	8L

15. Regulatory information

15.1 Regulatory information	
General information	None of the preparation's ingredients is subject to specific Community regulations
15.2 Information that appears on label	
Classification	C
Contains	Sodium hydroxide; Sodium borohydride
R phrases	R18 In use, may form flammable/explosive vapour-air mixture. R21/22 Harmful in contact with skin and if swallowed. R35 Causes severe burns.

S phrases	<p>S7/8 Keep container tightly closed and dry.</p> <p>S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.</p> <p>S36/37/39 Wear suitable protective clothing, gloves and eye/face protection.</p> <p>S43 In case of fire use sand, dry chemical or alcohol-resistant foam.</p> <p>S45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).</p> <p>S60 This material and its container must be disposed of as hazardous waste.</p>
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15.3 National regulations

- Directive 1999/45/EC and directive 2001/60/EC on the classification, packaging and labelling of dangerous preparations.
- Directive 92/32/EEC on the classification, packaging and labelling of dangerous substances.
- Regulation no.1907/2006, known as REACH.
- Directives 89/391/EEC, 89/654/EEC, 89/655/EEC, 89/656/EEC, 90/269/EEC, 90/270/EEC, 90/394/EEC, 90/679/EEC, 93/88/EEC, 95/63/EC, 97/42/EC, 98/24/EC, 99/38/EC, 99/92/EC, 2001/45/EC, 2003/10/EC, 2003/18/EC and 2004/40/EC on improving the health and safety of workers at work;
- Directives no. 80/1107/EEC, no. 82/605/EEC, no. 83/477/EEC, no. 86/188/EEC and no. 88/642/EEC on the protection of workers from risks related to exposure to chemical, physical and biological agents at work;
- Directives 96/61/CE, 2000/60/CE, 91/156/EEC, 91/689/EEC, 94/62/CE, 84/360/EEC, 94/63/CE, 1999/13/CE, 1999/32/CE, 93/12/EEC, 2001/80/CE, 2004/35/CE on environmental matters;
- ADR ed.2009 (Directive 2008/68/CE)
- RID ed.2009 (Directive 2008/68/CE)
- IMDG Code - 2008 Edition (Amdt.34) (IMO)
- Dangerous Goods Regulation 51th edition (IATA)



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16. Additional information

16.1 Further information	
Contact company	Morphic Exergy s.r.l. via B. Buozzi, 53-55-57 I - 40057 Cadriano - Granarolo dell'Emilia (Bo) Italy Telefono: +39 051 6751129 e-mail: info@exerygfuelcells.com
16.1 Full text of the R-phrases given in Section 3	
R14/15	Reacts violently with water, liberating extremely flammable gases.
R24/25	Toxic in contact with skin and if swallowed.
R34	Causes burns.
R35	Causes severe burns.
16.2 Acronyms	
LD50	Lethal dose, 50 %
LC50	Lethal concentration, 50 %
RTECS	Registry of Toxic Effects of Chemical Substances
16.3 Source	
General information on the document's compilation	The information on this safety data sheet represents the best information currently available to our company. References to risks related to the use of the product and to its inherent properties, as well as to laws and regulations and to biographical sources, must not be considered as exhaustive. The user must assess any additional risk that might result from the procedures and conditions of use of the product.



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- "Inorganic Chemistry", Cotton F. & Wilkinson G., 3 ed., 1984, pp. 324,325.
- "Toxnet" database available from "United States National Library of Medicine" website - <http://www.toxnet.nlm.nih.gov>
- "Existing Chemicals" database available from "European Chemical Bureau" website - <http://ecb.jrc.ec.europa.eu/esis/>
- "Inorganic Chemistry", Cotton F. & Wilkinson G., 3 ed., 1984, pp. 324,325;
- ADR ed.2009 (Directive 2008/68/CE)
- RID ed.2009 (Directive 2008/68/CE)
- IMDG Code - 2008 Edition (Amdt.34) (IMO)
- Dangerous Goods Regulation 51th edition (IATA)
- Registry of Toxic Effects of Chemical Substances (RTECS)

Safety Data Sheet
according to 1907/2006/EC, Article 31

Printing date 15.11.2007

Revision: 15.11.2007

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

- Product details

- Trade name: METHANOL

- Application of the substance / the preparation Solvents

- Manufacturer/Supplier:

SFC Smart Fuel Cell AG

Eugen-Saenger-Ring 4

85649 Brunnthal

Tel.: +49 (0)89 673 592-0

Fax: +49 (0)89 673 592-169

- Further information obtainable from: Safety Department

- Department issuing MSDS: info@chemiel.de

- Information in case of emergency: Giftnotruf München: +49 89/19 240

2 Hazards identification

- Hazard description:



T Toxic

F Highly flammable

- Information concerning to particular hazards to man and environment:

R 11 Highly flammable.

R 23/24/25 Toxic by inhalation, in contact with skin and if swallowed.

R 39/23/24/25 Toxic: danger of very serious irreversible effects through inhalation, in contact with skin and if swallowed.

3 Composition/information on ingredients

- Chemical characterization:

- CAS No. Description

67-56-1 methanol

- Identification number(s)

- EINECS Number: 200-659-6

- EU Number: 603-001-00-X

4 First-aid measures

- General information:

Immediately remove any clothing soiled by the product.

Remove breathing equipment only after contaminated clothing have been completely removed.

In case of irregular breathing or respiratory arrest provide artificial respiration.

- After inhalation:

Supply fresh air or oxygen; call for doctor.

In case of unconsciousness place patient stably in side position for transportation.

- After skin contact:

After contact with skin, wash immediately with plenty of soap and water.

If skin irritation continues, consult a doctor.

- After eye contact:

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

- After swallowing:

Fresh air. Induce vomiting. Make victim drink ethanol (e.g. 1 drinking glass of a 40% alcoholic beverage).

Call in physician, mentioning methanol ingestion.

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5 Fire-fighting measures

- **Suitable extinguishing agents:**
CO₂, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **Special hazards caused by the substance, its products of combustion or resulting gases:**
Can form explosive gas-air mixtures.
Formation of toxic gases is possible during heating or in case of fire.
- **Protective equipment:**
Wear self-contained respiratory protective device.
Do not inhale explosion gases or combustion gases.
- **Additional information**
Cool endangered receptacles with water spray.
Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

6 Accidental release measures

- **Person-related safety precautions:**
Wear protective equipment. Keep unprotected persons away.
Ensure adequate ventilation
Keep away from ignition sources.
- **Measures for environmental protection:**
Prevent seepage into sewage system, workpits and cellars.
Inform respective authorities in case of seepage into water course or sewage system.
- **Measures for cleaning/collecting:**
Ensure adequate ventilation.
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Dispose of the material collected according to regulations.
- **Additional information:** Fumes can combine with air to form an explosive mixture.

7 Handling and storage

- **Handling:**
- **Information for safe handling:**
Keep receptacles tightly sealed.
Ensure good interior ventilation, especially at floor level. (Fumes are heavier than air).
- **Information about fire - and explosion protection:**
Keep ignition sources away - Do not smoke.
Protect against electrostatic charges.
- **Storage:**
- **Requirements to be met by storerooms and receptacles:**
Store in a cool location.
Store only in the original receptacle.
- **Information about storage in one common storage facility:** Store away from foodstuffs.
- **Further information about storage conditions:**
Keep receptacle tightly sealed.
Store under lock and key and with access restricted to technical experts or their assistants only.
Store under lock and key and out of the reach of children.
Protect from heat and direct sunlight.

8 Exposure controls/personal protection

- **Additional information about design of technical facilities:** No further data; see item 7.

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- Ingredients with limit values that require monitoring at the workplace:

67-56-1 methanol	
AGW (Germany)	270 mg/m ³ , 200 ppm 4(II); DFG, EU, H, Y
IOELV (European Union)	260 mg/m ³ , 200 ppm Skin
WEL (Great Britain)	Short-term value: 333 mg/m ³ , 250 ppm Long-term value: 266 mg/m ³ , 200 ppm Sk

- Additional information: The lists valid during the making were used as basis.

- Personal protective equipment:**- General protective and hygienic measures:**

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing

Avoid contact with the eyes and skin.

- Respiratory protection: Use suitable respiratory protective device in case of insufficient ventilation.

- Protection of hands:

Protective gloves (EN 374)

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

- Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

- Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

- Eye protection: Tightly sealed goggles

- Body protection: Use protective suit.

9 Physical and chemical properties

- General Information

Form:	Fluid
Colour:	Colourless
Odour:	Alcohol-like
- Change in condition	
Melting point/Melting range:	-98°C
Boiling point/Boiling range:	64°C
- Flash point:	11°C
- Ignition temperature:	455°C
- Danger of explosion:	Product is not explosive. However, formation of explosive air/vapour mixtures are possible.
- Explosion limits:	
Lower:	5,5 Vol %
Upper:	44 Vol %
- Vapour pressure at 20°C:	128 hPa
- Density at 20°C:	0,79 g/cm ³

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- Solubility in / Miscibility with water: Fully miscible.

10 Stability and reactivity

- Thermal decomposition / conditions to be avoided: Protect from heat and direct sunlight.
- Dangerous reactions Forms explosive gas mixture with air.
- Dangerous decomposition products:
No dangerous products of decomposition if used and stored according to specifications.

11 Toxicological information

- Acute toxicity:
- LD/LC50 values relevant for classification:
67-56-1 methanol

Oral	LD50	13000 mg/kg (rat)
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- Primary irritant effect:
- on the skin: No irritant effect.
- on the eye: No irritating effect.
- Sensitization: No sensitizing effects known.

12 Ecological information

- General notes:
Water hazard class 1 (German Regulation) (Assessment by list): slightly hazardous for water
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

13 Disposal considerations

- Product:
- Recommendation Disposal must be made according to official regulations.

- European waste catalogue	
07 00 00	WASTES FROM ORGANIC CHEMICAL PROCESSES
07 01 00	wastes from the manufacture, formulation, supply and use (MFSU) of basic organic chemicals
07 01 04	other organic solvents, washing liquids and mother liquors

- Uncleaned packaging:
- Recommendation: Disposal must be made according to official regulations.
- Recommended cleansing agents: Water, if necessary together with cleansing agents.

14 Transport information

- Land transport ADR/RID (cross-border)
- ADR/RID class: 3 (F1) Flammable liquids.
- Danger code (Kemler): 336
- UN-Number: 1230
- Packaging group: II
- Hazard label: 3+6.1

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BU

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Trade name: METHANOL

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- Description of goods: 1230 METHANOL
 - Limited quantities (LQ) LQ0
 - Transport category 2
 - Tunnel restriction code D1E

- Maritime transport IMDG:
 - IMDG Class: 3
 - UN Number: 1230
 - Label 3+6.1
 - Packaging group: II
 - EMS Number: F-E,S-D
 - Proper shipping name: METHANOL

- Air transport ICAO-TI and IATA-DGR:
 - ICAO/IATA Class: 3
 - UN/ID Number: 1230
 - Label 3+6.1
 - Packaging group: II
 - Proper shipping name: METHANOL

15 Regulatory information

- Labelling according to EU guidelines:

The product has been classified and marked in accordance with EU Directives / Ordinance on Hazardous Materials.

- Code letter and hazard designation of product:

T Toxic
 F Highly flammable

- Risk phrases:

11 Highly flammable.
 23/24/25 Toxic by inhalation, in contact with skin and if swallowed.
 39/23/24/25 Toxic: danger of very serious irreversible effects through inhalation, in contact with skin and if swallowed.

- Safety phrases:

1/2 Keep locked up and out of the reach of children.
 7 Keep container tightly closed.
 16 Keep away from sources of ignition - No smoking.
 36/37 Wear suitable protective clothing and gloves.
 45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

- National regulations:

- Waterhazard class: Water hazard class 1 (Assessment by list): slightly hazardous for water.

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

EU