

### Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830 Date of issue: 5-1-2011 Revision date: 2-8-2018 Supersedes: 3-10-2017 version: 5.0

### SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1. Product identifier

Product form : Mixture
Product name : De-Icer
Product code : 89000

Vaporizer : Container fitted with a sealed spray attachment

#### 1.2. Relevant identified uses of the substance or mixture and uses advised against

#### 1.2.1. Relevant identified uses

Intended for general public

Main use category : Consumer use
Function or use category : Anti-freezing agents

#### 1.2.2. Uses advised against

No additional information available

#### 1.3. Details of the supplier of the safety data sheet

MPM International Oil Company Cyclotronweg 1 2629 HN Delft - Nederland T +31 (0)15 2514030 - F +31 (0)15 2514031 info@mpmoil.nl - www.mpmoil.nl

#### 1.4. Emergency telephone number

Emergency number : +31 (0)15 2514030 (08.00 - 17.00 GMT+1)

Country	Official advisory body	Address	Emergency number	Comment
Ireland	National Poisons Information Centre Beaumont Hospital	Beaumont Hospital Beaumont Road 9 Dublin	: +353 1 8379964	
United Kingdom	Guy's & St Thomas' Poisons Unit Medical Toxicology Unit, Guy's & St Thomas' Hospital Trust	Avonley Road SE14 5ER London	+44 20 7188 7188	

### **SECTION 2: Hazards identification**

### 2.1. Classification of the substance or mixture

#### Classification according to Regulation (EC) No. 1272/2008 [CLP]

Flammable liquids, Category 3 H226 Specific target organ toxicity — H373

Repeated exposure, Category 2

Full text of H statements : see section 16

### Adverse physicochemical, human health and environmental effects

No additional information available

#### 2.2. Label elements

### Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP) :



GHS02



GH

CLP Signal word : Warning
Hazardous ingredients : 1,2-Ethanediol

Hazard statements (CLP) : H226 - Flammable liquid and vapour.

H373 - May cause damage to organs through prolonged or repeated exposure.
P101 - If medical advice is needed, have product container or label at hand.

Precautionary statements (CLP)

: P101 - If medical advice is needed, have produce P102 - Keep out of reach of children.

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P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P233 - Keep container tightly closed. P260 - Do not breathe dusts or mists.

P314 - Get medical advice/attention if you feel unwell. P280 - Wear eye protection, protective gloves.

#### 2.3. Other hazards

No additional information available

### **SECTION 3: Composition/information on ingredients**

#### 3.1. Substances

Not applicable

#### 3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
ethanol; ethyl alcohol	(CAS-No.) 64-17-5 (EC-No.) 200-578-6 (EC Index-No.) 603-002-00-5 (REACH-no) 01-2119457610-43	40 - 48	Flam. Liq. 2, H225 Eye Irrit. 2, H319
1,2-Ethanediol	(CAS-No.) 107-21-1 (EC-No.) 203-473-3 (EC Index-No.) 603-027-00-1 (REACH-no.) 01-2119456816-28	7 - 11	Acute Tox. 4 (Oral), H302 STOT RE 2, H373

#### Specific concentration limits:

Name	Product identifier	Specific concentration limits
ethanol; ethyl alcohol	(CAS-No.) 64-17-5 (EC-No.) 200-578-6 (EC Index-No.) 603-002-00-5 (REACH-no) 01-2119457610-43	( 50 = <c 100)="" 2,="" <="" eye="" h319<="" irrit.="" td=""></c>

Full text of H-statements: see section 16

### **SECTION 4: First aid measures**

### 4.1. Description of first aid measures

General : If medical advice is needed, have product container or label at hand.

After inhalation : Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical

advice/attention if you feel unwell.

After skin contact : Take off contaminated clothing. Wash with plenty of water/.... If skin irritation or rash occurs:

Get medical advice/attention.

After eye contact : Rinse cautiously with water for several minutes. If eye irritation persists: Get medical

advice/attention.

After ingestion : IF SWALLOWED: rinse mouth. Do NOT induce vomiting. Get medical advice/attention if you

feel unwell. Let water be swallowed in little sips (dilution effect).

### 4.2. Most important symptoms and effects, both acute and delayed

After inhalation : High concentration of vapours may induce: headache, nausea, dizziness. Coughing.

After skin contact : May cause skin irritation / dermatitis.

After eye contact : Eye irritation.

After ingestion : Abdominal pain.

### 4.3. Indication of any immediate medical attention and special treatment needed

First Aid, decontamination, treatment of symptoms.

### **SECTION 5: Firefighting measures**

### 5.1. Extinguishing media

No additional information available

#### 5.2. Special hazards arising from the substance or mixture

Fire hazard : May form flammable/explosive vapour-air mixture.

Explosion hazard : Vapours may form explosive mixtures with air.

5.3. Advice for firefighters

Other information : Use water spray/stream to protect personnel and to cool endangered containers.

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### **SECTION 6: Accidental release measures**

#### 6.1. Personal precautions, protective equipment and emergency procedures

General measures : Keep away from sources of ignition - No smoking.

#### 6.1.1. For non-emergency personnel

No additional information available

#### 6.1.2. For emergency responders

No additional information available

#### 6.2. Environmental precautions

Prevent spreading over great surfaces (e.g. by damming or installing oil booms).

#### 6.3. Methods and material for containment and cleaning up

Other information : Ensure adequate ventilation.

### 6.4. Reference to other sections

No additional information available

### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

No additional information available

#### 7.2. Conditions for safe storage, including any incompatibilities

Storage area : Keep container tightly closed in a cool, well-ventilated place.

### 7.3. Specific end use(s)

No additional information available

### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

ethanol; ethyl alcohol (64-17-5)				
EU	IOELV TWA (mg/m³)	260 (NL); 950 (NO); 960 (DE, CH, SK); 1000 (SE, CS, ET, LT, BG, LV, RU); 1900 (DK, FR, FI, GR, AT, HU, SL, HR, PL); 1907 (BE); 1910 (ES); 1920 (GB)		
EU	IOELV TWA (ppm)	1000 (FR, GB, PT, BE, ES, DK, FI); 500 (DE, SE, NO, CH)		
EU	IOELV STEL (mg/m³)	1900 (LT, ET, NL, SE); 1920 (CH, SK); 2500 (FI); 3000 (CS); 3800 (AT); 9500 (FR)		
EU	IOELV STEL (ppm)	5000 (FR); 1000 (SE, CH); 1300 (FI)		
1,2-Ethanediol (107-21-1)				
EU	EU Local name Ethylene glycol			
EU	IOELV TWA (mg/m³)	52 mg/m³		
EU	IOELV TWA (ppm)	20 ppm		
EU	IOELV STEL (mg/m³)	104 mg/m³		
EU	IOELV STEL (ppm)	40 ppm		
EU	Notes	Skin		

### 8.2. Exposure controls

#### Technical measures:

If suction of the immediate vicinity is impossible or insufficient, adequate airing of the working place must be ensured.

### Personal protective equipment:

Gloves. Safety glasses.

### Hand protection:

Wear suitable gloves.

### Eye protection:

Safety glasses

### Skin and body protection:

None under normal use

#### Respiratory protection:

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No personal breathing protective equipment is normally required. Not necessary with sufficient ventilation





### **SECTION 9: Physical and chemical properties**

#### 9.1. Information on basic physical and chemical properties

Physical state : Liquid Colour : Blue.

Odour
Odour threshold
: Characteristic.
Odour threshold
: No data available
pH
: No data available
Relative evaporation rate (butylacetate=1)
: No data available
Melting point
: No data available
Freezing point
: No data available
Boiling point
: No data available

Flash point : 23,5 °C

Auto-ignition temperature : No data available
Decomposition temperature : No data available
Flammability (solid, gas) : No data available
Vapour pressure : No data available
Relative vapour density at 20 °C : No data available
Relative density : No data available

Density : 955 g/l
Solubility : Water: 100 %
Log Pow : No data available
Viscosity, kinematic : No data available
Viscosity, dynamic : No data available
Explosive properties : No data available
Oxidising properties : No data available

Explosive limits : 3,5 - 15 vol % (ethyl alcohol)

### 9.2. Other information

No additional information available

### **SECTION 10: Stability and reactivity**

### 10.1. Reactivity

None under normal use.

### 10.2. Chemical stability

The product is stable at normal handling- and storage conditions.

### 10.3. Possibility of hazardous reactions

No additional information available

#### 10.4. Conditions to avoid

Keep cool. Protect from sunlight. Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

### 10.5. Incompatible materials

Oxidizing substances.

#### 10.6. Hazardous decomposition products

On burning: release of harmful/irritant gases/vapours e.g.: carbon monoxide - carbon dioxide.

### **SECTION 11: Toxicological information**

#### 11.1. Information on toxicological effects

Acute toxicity : Not classified

ethanol; ethyl alcohol (64-17-5)	
LD50 oral rat	10470 mg/kg

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ethanol; ethyl alcohol (64-17-5)	
LD50 dermal rat	> 15800 mg/kg
LC50 inhalation rat (mg/l)	30000 mg/m³ Air
1,2-Ethanediol (107-21-1)	
LD50 oral rat	7712 mg/kg
LD50 dermal rat	> 3500 mg/kg Mouse
LD50 dermal rabbit	10600 mg/kg
LC50 inhalation rat (mg/l)	> 2,5 mg/l/6Hrs
Skin corrosion/irritation	: Not classified
Serious eye damage/irritation	: Not classified
Respiratory or skin sensitisation	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
1,2-Ethanediol (107-21-1)	
NOAEL (chronic, oral, animal/male, 2 years)	1000 mg/kg bodyweight
NOAEL (chronic, oral, animal/female, 2 years)	1500 mg/kg bodyweight
Reproductive toxicity	: Not classified
STOT-single exposure	: Not classified
STOT-repeated exposure	: May cause damage to organs through prolonged or repeated exposure.
1,2-Ethanediol (107-21-1)	
NOAEL (oral, rat, 90 days)	200 mg/kg bodyweight/day
Aspiration hazard	: Not classified
De-Icer	
Vaporizer	Container fitted with a sealed spray attachment

### **SECTION 12: Ecological information**

### 12.1. Toxicity

General : No risks worthy of mention.

ethanol; ethyl alcohol (64-17-5)		
LC50 fish 1	11200 mg/l /96h	
EC50 Daphnia 1	5012 mg/l /48h Freshwater	
ErC50 (algae)	275 mg/l /72h Freshwater	
1,2-Ethanediol (107-21-1)		
LC50 fish 1	72860 mg/l 96 hrs / Pimephales promelas	
EC50 Daphnia 1	> 100 mg/l 48 hrs	
EC50 other aquatic organisms 2 > 9600 mg/l 96 hrs / Selenastrum capricornutum		
NOEC (chronic)	15380 mg/l Fish Early Life Stage / Pimephales promelas / 7 days	

### 12.2. Persistence and degradability

1,2-Ethanediol (107-21-1)	
Biodegradation	Readily biodegradable

### 12.3. Bioaccumulative potential

1,2-Ethanediol (107-21-1)		
Log Pow -1.36		
Bioaccumulative potential	There is no bioaccumulation.	

### 12.4. Mobility in soil

1,2-Ethanediol (107-21-1)	
Soil	This material has low volatility and is water soluble hence the potential for mobility is high.

### 12.5. Results of PBT and vPvB assessment

No additional information available

### 12.6. Other adverse effects

No additional information available

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### **SECTION 13: Disposal considerations**

13.1. Waste treatment methods

Regional legislation (waste) : Waste disposal according to official state regulations.

### **SECTION 14: Transport information**

In accordance with ADR / RID / IMDG / IATA / ADN

ADR	IMDG		
14.1. UN number			
1993	1993		
14.2. UN proper shipping name			
FLAMMABLE LIQUID, N.O.S.	FLAMMABLE LIQUID, N.O.S.		
Transport document description			
UN 1993 FLAMMABLE LIQUID, N.O.S. (mixture ethanol and ethylene glycol), 3, III, (D/E)	UN 1993 FLAMMABLE LIQUID, N.O.S. (mixture ethanol and ethylene glycol), 3, III		
14.3. Transport hazard class(es)			
3	3		
3	3		
14.4. Packing group			
III	III		
14.5. Environmental hazards			
Dangerous for the environment : No	Dangerous for the environment : No Marine pollutant : No		
No supplementary information available			

### 14.6. Special precautions for user

### - Overland transport

Classification code (ADR) : F1
Limited quantities (ADR) : 5I
Transport category (ADR) : 3
Hazard identification number (Kemler No.) : 30

Orange plates

30 1993

Tunnel restriction code (ADR) : D/E EAC code : •3YE

- Transport by sea

EmS-No. (Fire) : F-E EmS-No. (Spillage) : S-E

### 14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable

### **SECTION 15: Regulatory information**

### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

### 15.1.1. EU-Regulations

Contains no REACH substances with Annex XVII restrictions

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

### 15.1.2. National regulations

No additional information available

#### 15.2. Chemical safety assessment

No additional information available

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### **SECTION 16: Other information**

#### Indication of changes:

	Revision date	Modified	
	Supersedes	Added	
	SDS EU format	Modified	
3	Composition/informatio n on ingredients	Modified	
9.1	Flash point	Added	
16	Abbreviations and acronyms	Added	

#### Abbreviations and acronyms:

ACGIH: American Conference of Governmental Industrial Hygienists. TWA: Time Weighted Average. TLV: Threshold Limit Value. ASTM: American Society for Testing and Materials . ADR: Accord Européen Relatif au Transport International des Marchandises Dangereuses par Route . RID: Regulations Concerning the International Carriage of Dangerous Goods by Rail . ADNR: Accord Européen relatif au Transport International des Marchandises Dangereuses par voie de Navigation du Rhin. IMDG: International Maritime Dangerous Goods. ICAO: International Civil Aviation Organization . IATA: International Air Transport Association. STEL: Short Term Exposure Limit. LD50: median Lethal Dose for 50% of subjects. ATE: acute toxicity estimate. LC50: median Lethal Concentration for 50% of subjects. EC50: concentration producing 50% effect.

#### Full text of H- and EUH-statements:

Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Flam. Liq. 2	Flammable liquids, Category 2
Flam. Liq. 3	Flammable liquids, Category 3
STOT RE 2	Specific target organ toxicity — Repeated exposure, Category 2
H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H302	Harmful if swallowed.
H319	Causes serious eye irritation.
H373	May cause damage to organs through prolonged or repeated exposure.

#### SDS MPM REACH

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product

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