



## SAFETY DATA SHEET

(REACH regulation (EC) n° 1907/2006 - n° 2015/830)

### SECTION 1 : IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

#### 1.1. Product identifier

Product name : ALSAN 971 F

SDS n°1221b

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

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

Registered company name : SOPREMA .

Address : 14, Rue de Saint-Nazaire.67025.STRASBOURG.FRANCE.

Telephone : 03 88 79 84 00. Fax : 03 88 79 84 01.

mkulinicz@soprema.fr

www.soprema.com

#### 1.4. Emergency telephone number : +44 (0)1 235 239 670.

Association/Organisation : CARECHEM 24 .

### SECTION 2 : HAZARDS IDENTIFICATION

#### 2.1. Classification of the substance or mixture

##### In compliance with EC regulation No. 1272/2008 and its amendments.

Flammable liquid, Category 3 (Flam. Liq. 3, H226).

Acute oral toxicity, Category 4 (Acute Tox. 4, H302).

Skin irritation, Category 2 (Skin Irrit. 2, H315).

Skin sensitisation, Category 1 (Skin Sens. 1, H317).

Specific target organ toxicity (single exposure), Category 3 (STOT SE 3, H335).

This mixture does not present an environmental hazard. No known or foreseeable environmental damage under standard conditions of use.

#### 2.2. Label elements

##### In compliance with EC regulation No. 1272/2008 and its amendments.

Hazard pictograms :



GHS07



GHS02

Signal Word :

WARNING

Product identifiers :

EC 201-297-1

METHYL METHACRYLATE

EC 203-080-7

2-ETHYLHEXYL ACRYLATE

EC 254-075-1

1,1'-(P-TOLYMINO)DIPROPANE-2-OL

Hazard statements :

H226

Flammable liquid and vapour.

H302

Harmful if swallowed.

H315

Causes skin irritation.

H317

May cause an allergic skin reaction.

H335

May cause respiratory irritation.

Precautionary statements - Prevention :

P210

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

P280

Wear protective gloves/protective clothing/eye protection/face protection.

Precautionary statements - Response :

P332 + P313

If skin irritation occurs: Get medical advice/attention.

Precautionary statements - Storage :

P403 + P235

Store in a well-ventilated place. Keep cool.

Precautionary statements - Disposal :

P501

Dispose of contents / container in accordance with local / regional / national / international regulation.

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**2.3. Other hazards**

The mixture does not contain substances classified as 'Substances of Very High Concern' (SVHC)  $\geq 0.1\%$  published by the European Chemicals Agency (ECHA) under article 57 of REACH: <http://echa.europa.eu/fr/candidate-list-table>

The mixture fulfils neither the PBT nor the vPvB criteria for mixtures in accordance with annexe XIII of the REACH regulations EC 1907/2006.

**SECTION 3 : COMPOSITION/INFORMATION ON INGREDIENTS****3.2. Mixtures****Composition :**

Identification	(EC) 1272/2008	Note	%
CAS: 14808-60-7 EC: 238-878-4  QUARTZ		[1]	50 $\leq$ x % < 100
CAS: 80-62-6 EC: 201-297-1 REACH: 01-2119452498-28-xxxx  METHYL METHACRYLATE	GHS07, GHS02 Dgr Flam. Liq. 2, H225 Skin Irrit. 2, H315 Skin Sens. 1, H317 STOT SE 3, H335	D [1]	10 $\leq$ x % < 25
CAS: 103-11-7 EC: 203-080-7 REACH: 01-2119453158-37-xxxx  2-ETHYLHEXYL ACRYLATE	GHS07 Wng Skin Irrit. 2, H315 Skin Sens. 1, H317 STOT SE 3, H335 Aquatic Chronic 3, H412	D	2.5 $\leq$ x % < 10
CAS: 38668-48-3 EC: 254-075-1 REACH: 01-2119980937-17-xxxx  1,1'-(P-TOLYMINO)DIPROPANE-2-OL	GHS06 Dgr Acute Tox. 2, H300 Eye Irrit. 2, H319 Aquatic Chronic 3, H412		0 $\leq$ x % < 2.5

**Information on ingredients :**

[1] Substance for which maximum workplace exposure limits are available.

**SECTION 4 : FIRST AID MEASURES**

As a general rule, in case of doubt or if symptoms persist, always call a doctor.

NEVER induce swallowing by an unconscious person.

**4.1. Description of first aid measures****In the event of exposure by inhalation :**

In the event of massive inhalation, remove the person exposed to fresh air. Keep warm and at rest.

If the person is unconscious, place in recovery position. Notify a doctor in all events, to ascertain whether observation and supportive hospital care will be necessary.

If breathing is irregular or has stopped, effect mouth-to-mouth resuscitation and call a doctor.

**In the event of splashes or contact with skin :**

Remove contaminated clothing and wash the skin thoroughly with soap and water or a recognised cleaner.

Watch out for any remaining product between skin and clothing, watches, shoes, etc.

In the event of an allergic reaction, seek medical attention.

If the contaminated area is widespread and/or there is damage to the skin, a doctor must be consulted or the patient transferred to hospital.

**In the event of swallowing :**

Do not give the patient anything orally.

In the event of swallowing, if the quantity is small (no more than one mouthful), rinse the mouth with water, administer activated medical charcoal and consult a doctor.

Seek medical attention immediately, showing the label.

If swallowed accidentally, call a doctor to ascertain whether observation and hospital care will be necessary. Show the label.

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

No data available.

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

No data available.

## SECTION 5 : FIREFIGHTING MEASURES

Flammable.

Chemical powders, carbon dioxide and other extinguishing gas are suitable for small fires.

### 5.1. Extinguishing media

Keep packages near the fire cool, to prevent pressurised containers from bursting.

### Suitable methods of extinction

In the event of a fire, use :

- sprayed water or water mist
- water with AFFF (Aqueous Film Forming Foam) additive

Prevent the effluent of fire-fighting measures from entering drains or waterways.

### Unsuitable methods of extinction

In the event of a fire, do not use :

- water jet

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

A fire will often produce a thick black smoke. Exposure to decomposition products may be hazardous to health.

Do not breathe in smoke.

In the event of a fire, the following may be formed :

- carbon monoxide (CO)
- carbon dioxide (CO<sub>2</sub>)

### 5.3. Advice for firefighters

Fire-fighting personnel are to be equipped with autonomous insulating breathing apparatus.

## SECTION 6 : ACCIDENTAL RELEASE MEASURES

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

Consult the safety measures listed under headings 7 and 8.

#### For non first aid worker

Avoid inhaling the vapors.

Avoid any contact with the skin and eyes.

If a large quantity has been spilt, evacuate all personnel and only allow intervention by trained operators equipped with safety apparatus.

#### For first aid worker

First aid workers will be equipped with suitable personal protective equipment (See section 8).

### 6.2. Environmental precautions

Contain and control the leaks or spills with non-combustible absorbent materials such as sand, earth, vermiculite, diatomaceous earth in drums for waste disposal.

Prevent any material from entering drains or waterways.

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

Clean preferably with a detergent, do not use solvents.

### 6.4. Reference to other sections

No data available.

## SECTION 7 : HANDLING AND STORAGE

Requirements relating to storage premises apply to all facilities where the mixture is handled.

Individuals with a history of skin sensitisation should not, under any circumstance, handle this mixture.

### 7.1. Precautions for safe handling

Always wash hands after handling.

Remove and wash contaminated clothing before re-using.

#### Fire prevention :

Handle in well-ventilated areas.

Prevent the formation of flammable or explosive concentrations in air and avoid vapor concentrations higher than the occupational exposure limits.

Prevent the accumulation of electrostatic charges with connections to earth.

The mixture can become electrostatically charged : always earth during decanting operations. Wear antistatic shoes and clothing and floors should be electrically conductive.

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Use the mixture in premises free of naked flames or other sources of ignition and ensure that electrical equipment is suitably protected.

Keep packages tightly closed and away from sources of heat, sparks and naked flames.

Do not use tools which may produce sparks. Do not smoke.

Prevent access by unauthorised personnel.

**Recommended equipment and procedures :**

For personal protection, see section 8.

Observe precautions stated on label and also industrial safety regulations.

Avoid inhaling vapors. Carry out any industrial operation which may give rise to this in a sealed apparatus.

Provide vapor extraction at the emission source and also general ventilation of the premises.

Also provide breathing apparatus for certain short tasks of an exceptional nature and for emergency interventions.

In all cases, recover emissions at source.

**Prohibited equipment and procedures :**

No smoking, eating or drinking in areas where the mixture is used.

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

No data available.

**Storage**

Keep the container tightly closed in a dry, well-ventilated place.

Keep away from food and drink, including those for animals.

Keep away from all sources of ignition - do not smoke.

Keep well away from all sources of ignition, heat and direct sunlight.

Avoid accumulation of electrostatic charges.

**Packaging**

Always keep in packaging made of an identical material to the original.

**7.3. Specific end use(s)**

No data available.

**SECTION 8 : EXPOSURE CONTROLS/PERSONAL PROTECTION****8.1. Control parameters****Occupational exposure limits :**

- European Union (2017/164/UE, 2009/161/UE, 2006/15/CE, 2000/39/CE, 98/24/CE)

CAS	VME-mg/m3 :	VME-ppm :	VLE-mg/m3 :	VLE-ppm :	Notes :
80-62-6	-	50	-	100	-

- France (INRS - ED984 :2012) :

CAS	VME-ppm :	VME-mg/m3 :	VLE-ppm :	VLE-mg/m3 :	Notes :	TMP No :
14808-60-7	-	0.1 A	-	-	-	25
80-62-6	50	205	100	410	-	82

- UK / WEL (Workplace exposure limits, EH40/2005, 2007) :

CAS	TWA :	STEL :	Ceiling :	Definition :	Criteria :
14808-60-7	0.3 mg/m3	-	-	-	R
80-62-6	50 ppm 208 mg/m3	100 ppm 416 mg/m3			

**Derived no effect level (DNEL) or derived minimum effect level (DMEL):**

1,1'-(P-TOLYMINO)DIPROPANE-2-OL (CAS: 38668-48-3)

**Final use:**

Exposure method:

Potential health effects:

DNEL :

Exposure method:

Potential health effects:

DNEL :

**Workers.**

Dermal contact.

Long term systemic effects.

0.6 mg/kg body weight/day

Inhalation.

Long term systemic effects.

2 mg of substance/m3

2-ETHYLHEXYL ACRYLATE (CAS: 103-11-7)

**Final use:**

Exposure method:

Potential health effects:

**Workers.**

Inhalation.

Long term local effects.

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DNEL : 37.5 mg of substance/m3

**Final use:**

Exposure method:

Potential health effects:

DNEL :

**Consumers.**

Inhalation.

Long term local effects.

4.5 mg of substance/m3

METHYL METHACRYLATE (CAS: 80-62-6)

**Final use:**

Exposure method:

Potential health effects:

DNEL :

**Workers.**

Dermal contact.

Long term systemic effects.

13.67 mg/kg body weight/day

Exposure method:

Potential health effects:

DNEL :

Inhalation.

Long term systemic effects.

208 mg of substance/m3

Exposure method:

Potential health effects:

DNEL :

Inhalation.

Short term systemic effects.

416 mg of substance/m3

**Predicted no effect concentration (PNEC):**

1,1'-(P-TOLYMINO)DIPROPANE-2-OL (CAS: 38668-48-3)

Environmental compartment:

PNEC :

Fresh water.

0.017 mg/l

Environmental compartment:

PNEC :

Sea water.

0.00782 mg/kg

Environmental compartment:

PNEC :

Intermittent waste water.

0.17 mg/l

Environmental compartment:

PNEC :

Waste water treatment plant.

199.5 mg/l

2-ETHYLHEXYL ACRYLATE (CAS: 103-11-7)

Environmental compartment:

PNEC :

Soil.

1 mg/kg

Environmental compartment:

PNEC :

Fresh water.

2.72 µg/l

Environmental compartment:

PNEC :

Sea water.

0.272 µg/l

Environmental compartment:

PNEC :

Intermittent waste water.

11 µg/l

Environmental compartment:

PNEC :

Fresh water sediment.

0.126 mg/kg

Environmental compartment:

PNEC :

Marine sediment.

0.0126 mg/kg

Environmental compartment:

PNEC :

Waste water treatment plant.

2.3 mg/l

**8.2. Exposure controls****Personal protection measures, such as personal protective equipment**

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Pictogram(s) indicating the obligation of wearing personal protective equipment (PPE) :



Use personal protective equipment that is clean and has been properly maintained.

Store personal protective equipment in a clean place, away from the work area.

Never eat, drink or smoke during use. Remove and wash contaminated clothing before re-using. Ensure that there is adequate ventilation, especially in confined areas.

**- Eye / face protection**

Avoid contact with eyes.

Use eye protectors designed to protect against liquid splashes

Before handling, wear safety goggles in accordance with standard EN166.

**- Hand protection**

Use suitable protective gloves that are resistant to chemical agents in accordance with standard EN374.

Gloves must be selected according to the application and duration of use at the workstation.

Protective gloves need to be selected according to their suitability for the workstation in question : other chemical products that may be handled, necessary physical protections (cutting, pricking, heat protection), level of dexterity required.

Type of gloves recommended :

- Nitrile rubber (butadiene-acrylonitrile copolymer rubber (NBR))

Recommended properties :

- Impervious gloves in accordance with standard EN374

**- Body protection**

Avoid skin contact.

Wear suitable protective clothing.

Suitable type of protective clothing :

In the event of substantial spatter, wear liquid-tight protective clothing against chemical risks (type 3) in accordance with EN14605 to prevent skin contact.

In the event of a risk of splashing, wear protective clothing against chemical risks (type 6) in accordance with EN13034 to prevent skin contact.

Work clothing worn by personnel shall be laundered regularly.

After contact with the product, all parts of the body that have been soiled must be washed.

**- Respiratory protection**

Avoid breathing vapours.

If the ventilation is insufficient, wear appropriate breathing apparatus.

When workers are confronted with concentrations that are above occupational exposure limits, they must wear a suitable, approved, respiratory protection device.

Anti-gas and vapour filter(s) (Combined filters) in accordance with standard EN14387 :

- A2 (Brown)

**SECTION 9 : PHYSICAL AND CHEMICAL PROPERTIES****9.1. Information on basic physical and chemical properties****General information :**

Physical state :

Viscous liquid.

**Important health, safety and environmental information**

pH :

Not relevant.

Boiling point/boiling range :

Not relevant.

Flash Point :

39.00 °C.

Vapour pressure (50°C) :

Below 110 kPa (1.10 bar).

Density :

> 1

Water solubility :

Insoluble.

Melting point/melting range :

Not relevant.

Self-ignition temperature :

Not relevant.

Decomposition point/decomposition range :

Not relevant.

**9.2. Other information**

VOC (g/l) :

12

**SECTION 10 : STABILITY AND REACTIVITY****10.1. Reactivity**

No data available.

**10.2. Chemical stability**

This mixture is stable under the recommended handling and storage conditions in section 7.

**10.3. Possibility of hazardous reactions**

No data available.

**10.4. Conditions to avoid**

Any apparatus likely to produce a flame or to have a metallic surface at high temperature (burners, electric arcs, furnaces etc.) must not be allowed on the premises.

Avoid :

- accumulation of electrostatic charges.
- heating
- heat
- flames and hot surfaces

**10.5. Incompatible materials****10.6. Hazardous decomposition products**

The thermal decomposition may release/form :

- carbon monoxide (CO)
- carbon dioxide (CO<sub>2</sub>)

**SECTION 11 : TOXICOLOGICAL INFORMATION****11.1. Information on toxicological effects**

Harmful if swallowed.

May cause irreversible damage to the skin; namely inflammation of the skin or the formation of erythema and eschar or oedema following exposure up to four hours.

Respiratory tract irritation may occur, together with symptoms such as coughing, choking and breathing difficulties.

May cause an allergic reaction by skin contact.

**11.1.1. Substances****Acute toxicity :**

1,1'-(P-TOLYMINO)DIPROPANE-2-OL (CAS: 38668-48-3)

Oral route : 25 < LD<sub>50</sub> ≤ 50 mg/kg  
Species : Rat

Dermal route : LD<sub>50</sub> > 2000 mg/kg  
Species : Rat

2-ETHYLHEXYL ACRYLATE (CAS: 103-11-7)

Oral route : LD<sub>50</sub> > 4000 mg/kg  
Species : Rat

Dermal route : LD<sub>50</sub> > 8000 mg/kg  
Species : Rabbit

METHYL METHACRYLATE (CAS: 80-62-6)

Oral route : LD<sub>50</sub> > 5000 mg/kg  
Species : Rat  
OECD Guideline 401 (Acute Oral Toxicity)

Dermal route : LD<sub>50</sub> > 5000 mg/kg  
Species : Rabbit

Inhalation route (Dusts/mist) : LC<sub>50</sub> = 29.8 mg/l  
Species : Rat

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**Skin corrosion/skin irritation :**

2-ETHYLHEXYL ACRYLATE (CAS: 103-11-7)

Effect observed : Overall irritation score

1,1'-(P-TOLYMINO)DIPROPANE-2-OL (CAS: 38668-48-3)

Species : Rabbit

**Germ cell mutagenicity :**

1,1'-(P-TOLYMINO)DIPROPANE-2-OL (CAS: 38668-48-3)

Mutagenesis (in vitro) :

Negative.

Species : Bacteria

Ames test (in vitro) :

Negative.

**11.1.2. Mixture**

No toxicological data available for the mixture.

**SECTION 12 : ECOLOGICAL INFORMATION****12.1. Toxicity****12.1.1. Substances**

1,1'-(P-TOLYMINO)DIPROPANE-2-OL (CAS: 38668-48-3)

Fish toxicity :

LC50 = 17 mg/l

Species : Danio rerio

Duration of exposure : 96 h

Crustacean toxicity :

EC50 = 28.8 mg/l

Species : Daphnia magna

Duration of exposure : 48 h

Algae toxicity :

ECr50 = 245 mg/l

Species : Desmodesmus subspicatus

Duration of exposure : 72 h

METHYL METHACRYLATE (CAS: 80-62-6)

Fish toxicity :

LC50 &gt; 79 mg/l

Species : Oncorhynchus mykiss

Duration of exposure : 96 h

OECD Guideline 203 (Fish, Acute Toxicity Test)

NOEC = 9.4 mg/l

Species : Danio rerio

OECD Guideline 210 (Fish, Early-Life Stage Toxicity Test)

Crustacean toxicity :

EC50 = 69 mg/l

Species : Daphnia magna

Duration of exposure : 48 h

OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)

NOEC = 37 mg/l

Species : Daphnia magna

Duration of exposure : 21 days

OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)

Algae toxicity :

ECr50 &gt; 110 mg/l

Species : Selenastrum capricornutum

Duration of exposure : 72 h

OECD Guideline 201 (Alga, Growth Inhibition Test)

NOEC &gt; 110 mg/l

Species : Scenedesmus capricornutum

Duration of exposure : 72 h



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OECD Guideline 201 (Alga, Growth Inhibition Test)

Aquatic plant toxicity :

ECx &gt; 1 mg/l

**12.1.2. Mixtures**

No aquatic toxicity data available for the mixture.

**12.2. Persistence and degradability****12.2.1. Substances**

1,1'-(P-TOLYMINO)DIPROPANE-2-OL (CAS: 38668-48-3)

Biodegradability : Rapidly degradable.

2-ETHYLHEXYL ACRYLATE (CAS: 103-11-7)

Biodegradability : no degradability data is available, the substance is considered as not degrading quickly.

METHYL METHACRYLATE (CAS: 80-62-6)

Biodegradability : no degradability data is available, the substance is considered as not degrading quickly.

QUARTZ (CAS: 14808-60-7)

Biodegradability : no degradability data is available, the substance is considered as not degrading quickly.

**12.3. Bioaccumulative potential****12.3.1. Substances**

1,1'-(P-TOLYMINO)DIPROPANE-2-OL (CAS: 38668-48-3)

Octanol/water partition coefficient : log K<sub>ow</sub> = 2.1

2-ETHYLHEXYL ACRYLATE (CAS: 103-11-7)

Octanol/water partition coefficient : log K<sub>ow</sub> = 4.09

Bioaccumulation : BCF = 412

METHYL METHACRYLATE (CAS: 80-62-6)

Octanol/water partition coefficient : log K<sub>ow</sub> = 1.38**12.4. Mobility in soil**

No data available.

**12.5. Results of PBT and vPvB assessment**

No data available.

**12.6. Other adverse effects**

No data available.

**SECTION 13 : DISPOSAL CONSIDERATIONS**

Proper waste management of the mixture and/or its container must be determined in accordance with Directive 2008/98/EC.

**13.1. Waste treatment methods**

Do not pour into drains or waterways.

**Waste :**

Waste management is carried out without endangering human health, without harming the environment and, in particular without risk to water, air, soil, plants or animals.

Recycle or dispose of waste in compliance with current legislation, preferably via a certified collector or company.

Do not contaminate the ground or water with waste, do not dispose of waste into the environment.

**Soiled packaging :**

Empty container completely. Keep label(s) on container.

Give to a certified disposal contractor.

**SECTION 14 : TRANSPORT INFORMATION**

Transport product in compliance with provisions of the ADR for road, RID for rail, IMDG for sea and ICAO/IATA for air transport (ADR 2017 - IMDG 2016 - ICAO/IATA 2017).

**14.1. UN number**

1263

**14.2. UN proper shipping name**

UN1263=PAINT (including paint, lacquer, enamel, stain, shellac, varnish, polish, liquid filler and liquid lacquer base) or PAINT RELATED MATERIAL (including paint thinning and reducing compound)

**14.3. Transport hazard class(es)**

- Classification :



3

**14.4. Packing group**

III

**14.5. Environmental hazards**

-

**14.6. Special precautions for user**

ADR/RID	Class	Code	Pack gr.	Label	Ident.	LQ	Provis.	EQ	Cat.	Tunnel
	3	F1	III	3	30	5 L	163 367 650	E1	3	D/E

If Q &lt;450l, see 2.2.3.1.5.1.

IMDG	Class	2°Label	Pack gr.	LQ	EMS	Provis.	EQ
	3	-	III	5 L	F-E,S-E	163 223 367 955	E1

If Q &lt;30l, see 2.3.2.5.

IATA	Class	2°Label	Pack gr.	Passager	Passager	Cargo	Cargo	note	EQ
	3	-	III	355	60 L	366	220 L	A3 A72 A192	E1
	3	-	III	Y344	10 L	-	-	A3 A72 A192	E1

For limited quantities, see part 2.7 of the OACI/IATA and chapter 3.4 of the ADR and IMDG.

For excepted quantities, see part 2.6 of the OACI/IATA and chapter 3.5 of the ADR and IMDG.

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

No data available.

**SECTION 15 : REGULATORY INFORMATION****15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****- Classification and labelling information included in section 2:**

The following regulations have been used:

- EU Regulation No. 1272/2008 amended by EU Regulation No. 2016/1179. (ATP 9)

**- Container information:**

No data available.

**- Particular provisions :**

No data available.

**- Swiss ordinance on the incentive tax on volatile organic compounds :**

VOC : 11 g/L

**15.2. Chemical safety assessment**

No data available.

## SECTION 16 : OTHER INFORMATION

Since the user's working conditions are not known by us, the information supplied on this safety data sheet is based on our current level of knowledge and on national and community regulations.

The mixture must not be used for other uses than those specified in section 1 without having first obtained written handling instructions.

It is at all times the responsibility of the user to take all necessary measures to comply with legal requirements and local regulations.

The information in this safety data sheet must be regarded as a description of the safety requirements relating to the mixture and not as a guarantee of the properties thereof.

### Wording of the phrases mentioned in section 3 :

H225	Highly flammable liquid and vapour.
H300	Fatal if swallowed.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
H412	Harmful to aquatic life with long lasting effects.

### Abbreviations :

DNEL : Derived No-Effect Level

PNEC : Predicted No-Effect Concentration

ADR : European agreement concerning the international carriage of dangerous goods by Road.

IMDG : International Maritime Dangerous Goods.

IATA : International Air Transport Association.

ICAO : International Civil Aviation Organisation

RID : Regulations concerning the International carriage of Dangerous goods by rail.

WGK : Wassergefährdungsklasse (Water Hazard Class).

GHS02 : Flame

GHS07 : Exclamation mark

PBT: Persistent, bioaccumulable and toxic.

vPvB : Very persistent, very bioaccumulable.

SVHC : Substances of very high concern.