

*SAFETY DATA SHEET according to Regulation (EC) No. 1907/2006*

**POLYCRAFT ISOPROPANOL 99.9%**

Version 6.0

Print Date 2016/08/25

Revision date / valid from 2016/08/25

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

**1.1. Product identifier**

Trade name : ISOPROPYL ALCOHOL (IPA) 99.9%

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

Use of the Substance/Mixture : At this time we do not yet have information on identified uses. They will be included in this safety data sheet when available.

Uses advised against : At this moment we have not identified any uses advised against

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

Company : MB Fibreglass  
Unit 17 & 20 Abbey Business Park, Mill Road  
Newtownabbey, Co.Antrim, BT36 7EE  
Telephone : 02890 861992  
Email : sales@mbfg.co.uk

**1.4. Emergency telephone number**

Emergency telephone number : 02890 861992 (Office Hours only)

**SECTION 2: Hazards identification**

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

**Classification according to Regulation (EC) No 1272/2008**

REGULATION (EC) No 1272/2008			
Hazard class	Hazard category	Target Organs	Hazard statements
Flammable liquids	Category 2	---	H225
Serious eye damage/eye irritation	Category 2	---	H319
Specific target organ toxicity - single exposure	Category 3	---	H336

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For the full text of the H-Statements mentioned in this Section, see Section 16.

### Most important adverse effects

Human Health	:	See section 11 for toxicological information.
Physical and chemical hazards	:	See section 9 for physicochemical information.
Potential environmental effects	:	See section 12 for environmental information.

## 2.2. Label elements

### Labelling according to Regulation (EC) No 1272/2008

Hazard symbols	:	 
Signal word	:	Danger
Hazard statements	:	H225 Highly flammable liquid and vapour. H319 Causes serious eye irritation. H336 May cause drowsiness or dizziness.
Precautionary statements		
Prevention	:	P233 Keep container tightly closed. P240 Ground/bond container and receiving equipment. P243 Take precautionary measures against static discharge. P280 Wear protective gloves/ protective clothing/ eye protection/ face protection. P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
Response	:	P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing. P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
Storage	:	P403 + P235 Store in a well-ventilated place. Keep cool.

### Hazardous components which must be listed on the label:

- propan-2-ol

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### 2.3. Other hazards

For Results of PBT and vPvB assessment see section 12.5.

## SECTION 3: Composition/information on ingredients

### 3.2. Mixtures

Hazardous components	Amount [%]	Classification (REGULATION (EC) No 1272/2008)	
		Hazard class / Hazard category	Hazard statements
<b>propan-2-ol</b>			
Index-No. : 603-117-00-0	>= 70 - <= 100	Flam. Liq.2	H225
CAS-No. : 67-63-0		Eye Irrit.2	H319
EC-No. : 200-661-7		STOT SE3	H336
EC : 01-2119457558-25-xxxx			
Registration			

For the full text of the H-Statements mentioned in this Section, see Section 16.

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

- General advice : Take off all contaminated clothing immediately. Wash contaminated clothing before re-use.
- If inhaled : Remove to fresh air. If breathing is irregular or stopped, administer artificial respiration. If unconscious place in recovery position. Call a physician immediately.
- In case of skin contact : Wash off immediately with plenty of water. Remove and wash contaminated clothing before re-use. If skin irritation persists, call a physician.
- In case of eye contact : Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Consult an eye specialist immediately. Go to an ophthalmic hospital if possible.
- If swallowed : Rinse mouth with water. Never give anything by mouth to an unconscious person. Do NOT induce vomiting. Call a physician immediately. If a person vomits when lying on his back, place him in the recovery position.

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

- Symptoms : See Section 11 for more detailed information on health effects and symptoms.

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Effects : See Section 11 for more detailed information on health effects and symptoms.

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

Treatment : Treat symptomatically.

## **SECTION 5: Firefighting measures**

### **5.1. Extinguishing media**

Suitable extinguishing media : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Unsuitable extinguishing media : High volume water jet

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

Specific hazards during firefighting : The vapour may be invisible, heavier than air and spread along ground. Vapours may form explosive mixtures with air. Flash back possible over considerable distance. Heating or fire can release toxic gas. Highly flammable liquid and vapour.

Hazardous combustion products : Carbon dioxide (CO<sub>2</sub>), Carbon monoxide, Smoke

### **5.3. Advice for firefighters**

Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus. Wear personal protective equipment.

Further advice : Cool closed containers exposed to fire with water spray. Heating will cause a pressure rise - with risk of bursting. Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

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

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

Personal precautions : Use personal protective equipment. Keep away unprotected persons. Provide adequate ventilation. Keep away from heat and sources of ignition. Avoid contact with skin, eyes and clothing. Do not breathe vapours or spray mist.

### **6.2. Environmental precautions**

Environmental precautions : Do not flush into surface water or sanitary sewer system. Avoid subsoil penetration. If the product contaminates rivers and lakes or drains inform respective authorities.

### **6.3. Methods and materials for containment and cleaning up**

Methods and materials for : Contain spillage, and then collect with non-combustible

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containment and cleaning up : absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).

Further information : Treat recovered material as described in the section "Disposal considerations".

### **6.4. Reference to other sections**

See Section 1 for emergency contact information.  
See Section 8 for information on personal protective equipment.  
See Section 13 for waste treatment information.

## **SECTION 7: Handling and storage**

### **7.1. Precautions for safe handling**

Advice on safe handling : Keep container tightly closed. Ensure adequate ventilation. Use personal protective equipment. Avoid contact with skin, eyes and clothing. Do not breathe vapours or spray mist. Emergency eye wash fountains and emergency showers should be available in the immediate vicinity.

Hygiene measures : Keep away from food, drink and animal feedingstuffs. Smoking, eating and drinking should be prohibited in the application area. Wash hands before breaks and at the end of workday. Remove and wash contaminated clothing before re-use.

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

Requirements for storage areas and containers : Store in original container. Keep in an area equipped with solvent resistant flooring.

Advice on protection against fire and explosion : Combustible liquid. Keep away from sources of ignition - No smoking. The vapour may be invisible, heavier than air and spread along ground. Vapours may form explosive mixtures with air. Take measures to prevent the build up of electrostatic charge. Use only in an area containing explosion proof equipment. Ensure all equipment is electrically grounded before beginning transfer operations.

Further information on storage conditions : Keep tightly closed in a dry and cool place. Keep in a well-ventilated place. Keep away from heat.

Advice on common storage : Keep away from food, drink and animal feedingstuffs. Incompatible with oxidizing agents. Do not store together with oxidizing and self-igniting products.

Suitable packaging materials : Steel, Stainless steel

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

Specific use(s) : No information available.

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### **SECTION 8: Exposure controls/personal protection**

#### **8.1. Control parameters**

<b>Component:</b>	<b>propan-2-ol</b>	<b>CAS-No. 67-63-0</b>
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<b>Derived No Effect Level (DNEL)/Derived Minimal Effect Level (DMEL)</b>	
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DNEL

Workers, Long-term - systemic effects, Skin contact : 888 mg/kg bw/day

DNEL

Workers, Long-term - systemic effects, Inhalation : 500 mg/m<sup>3</sup>

DNEL

Consumers, Long-term - systemic effects, Skin contact : 319 mg/kg bw/day

DNEL

Consumers, Long-term - systemic effects, Inhalation : 89 mg/m<sup>3</sup>

DNEL

Consumers, Long-term - systemic effects, Ingestion : 26 mg/kg bw/day

<b>Predicted No Effect Concentration (PNEC)</b>	
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Fresh water : 140.9 mg/l

Marine water : 140.9 mg/l

Intermittent releases : 140.9 mg/l

Sewage treatment plant (STP) : 2251 mg/l

Sediment : 552 mg/kg d.w.

Soil : 28 mg/kg

Secondary poisoning : 160 mg/kg food

<b>Other Occupational Exposure Limit Values</b>	
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UK. EH40 Workplace Exposure Limits (WELs), Short Term Exposure Limit (STEL):  
500 ppm, 1,250 mg/m<sup>3</sup>

UK. EH40 Workplace Exposure Limits (WELs), Time Weighted Average (TWA):  
400 ppm, 999 mg/m<sup>3</sup>

ELV (IE), Skin designation:

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Can be absorbed through the skin.

ELV (IE), Time Weighted Average (TWA):  
200 ppm

### **8.2. Exposure controls**

#### **Appropriate engineering controls**

Refer to protective measures listed in sections 7 and 8.

Provide sufficient air exchange and/or exhaust in work rooms.  
Take measures to prevent the build up of electrostatic charge.

#### **Personal protective equipment**

##### *Respiratory protection*

Advice : If ventilation is insufficient, suitable respiratory protection must be provided  
Required, if exposure limit is exceeded (e.g. OEL).  
In the case of vapour formation use a respirator with an approved filter.  
Recommended Filter type:A

Filter Type : Organic vapour type

##### *Hand protection*

Advice : The glove material has to be impermeable and resistant to the product / the substance / the preparation.  
As the product is a mixture of several substances, the durability of the glove materials cannot be calculated in advance and has to be tested before use.  
Protective gloves should be replaced at first signs of wear.

Material : Nitrile rubber  
Break through time :  $\geq 8$  h  
Glove thickness : 0.35 mm

Material : butyl-rubber  
Break through time :  $\geq 8$  h  
Glove thickness : 0.5 mm

Material : Fluorinated rubber  
Break through time :  $\geq 8$  h  
Glove thickness : 0.4 mm

##### *Eye protection*

Advice : Tightly fitting safety goggles

##### *Skin and body protection*

Advice : Choose body protection in relation to its type, to the concentration

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and amount of dangerous substances, and to the specific work-place.

Wear appropriate chemical resistant clothing and boots.

Solvent resistant protective clothing

### **Environmental exposure controls**

General advice : Do not flush into surface water or sanitary sewer system.  
Avoid subsoil penetration.  
If the product contaminates rivers and lakes or drains inform respective authorities.

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

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

Form	: liquid
Colour	: colourless clear
Odour	: alcohol-like
Odour Threshold	: no data available
pH	: neutral
Melting point/range	: ca. -89.5 °C
Boiling point/boiling range	: ca. 82 °C
Flash point	: ca. 12 °C (Method: closed cup)
Evaporation rate	: 2.9 (Butyl Acetate = 1)
Flammability (solid, gas)	: Formation of explosive air/vapour mixtures is possible.
Upper explosion limit	: ca. 12 %(V)
Lower explosion limit	: ca. 2 %(V)
Vapour pressure	: ca. 60.2 hPa (20 °C)
Relative vapour density	: ca. 2
Relative density	: 0.791 (15 °C)
Density	: 0.785 - 0.875 g/cm <sup>3</sup> (20 °C)
Water solubility	: completely miscible



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Solubility in other solvents	: (organic) miscible
Partition coefficient: n-octanol/water	: log Kow 0.05 (OECD Test Guideline 107) Literature value
Auto-ignition temperature	: ca. 399 °C
Thermal decomposition	: no data available
Viscosity, dynamic	: 2.1 mPa.s (25 °C)
Explosive properties	: EU legislation: Not explosive
Explosivity	: Formation of explosive air/vapour mixtures is possible.
Oxidizing properties	: The substance or mixture is not classified as oxidizing.

### **9.2. Other information**

Molecular weight	: 60.11 g/mol
Bulk density	: 791 kg/m <sup>3</sup>

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

### **10.1. Reactivity**

Advice : Stable under recommended storage conditions.

### **10.2. Chemical stability**

Advice : No decomposition if stored and applied as directed.

### **10.3. Possibility of hazardous reactions**

Hazardous reactions : Exothermic reaction with strong acids. Incompatible with oxidizing agents.

### **10.4. Conditions to avoid**

Conditions to avoid : Keep away from heat and sources of ignition. Heat, flames and sparks.

### **10.5. Incompatible materials**

Materials to avoid : Strong acids and oxidizing agents, Aldehydes, Halogens

### **10.6. Hazardous decomposition products**

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Hazardous decomposition : Carbon oxides, Smoke products

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

#### **11.1. Information on toxicological effects**

##### **Data for the product**

##### **Acute toxicity**

##### **Oral**

Please find this information in the listing of the component/components below in this section.

##### **Inhalation**

Please find this information in the listing of the component/components below in this section.

##### **Dermal**

Please find this information in the listing of the component/components below in this section.

##### **Irritation**

##### **Skin**

Result : Please find this information in the listing of the component/components below in this section.

##### **Eyes**

Result : Causes serious eye irritation.

##### **Sensitisation**

Result : Please find this information in the listing of the component/components below in this section.

##### **CMR effects**

##### **CMR Properties**

Carcinogenicity : Please find this information in the listing of the component/components below in this section.

Mutagenicity : Please find this information in the listing of the component/components below in this section.

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Teratogenicity : Please find this information in the listing of the component/components below in this section.

Reproductive toxicity : Please find this information in the listing of the component/components below in this section.

### **Specific Target Organ Toxicity**

#### **Single exposure**

Inhalation : May cause drowsiness or dizziness.

#### **Repeated exposure**

Remark : The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

### **Other toxic properties**

#### **Repeated dose toxicity**

no data available

#### **Aspiration hazard**

No aspiration toxicity classification,

### **Further information**

Other relevant toxicity information : Prolonged skin contact may defat the skin and produce dermatitis. Inhalation of high vapour concentrations may cause symptoms like headache, dizziness, tiredness, nausea and vomiting. Risk of product entering the lungs on vomiting after ingestion. Liver injury may occur.

**Component:** **propan-2-ol** **CAS-No. 67-63-0**

#### **Acute toxicity**

##### **Oral**

LD50 : 5840 mg/kg (Rat) (OECD Test Guideline 401)

##### **Inhalation**

LC50 : > 25 mg/l (Rat; 6 h; vapour) (OECD Test Guideline 403)

##### **Dermal**

LD50 : 13900 mg/kg (Rabbit) (OECD Test Guideline 402)

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### **Irritation**

#### **Skin**

Result : No skin irritation (OECD Test Guideline 404)  
Decreases the skin which may cause dry and rough. Prolonged or repeated skin contact may result in dermatitis.

#### **Eyes**

Result : Eye irritation (OECD Test Guideline 405)  
Splashes in eyes may cause strong pain. Vapour acts irritant.

### **Sensitisation**

Result : not sensitizing (Buehler Test; Dermal; Guinea pig) (OECD Test Guideline 406)

### **CMR effects**

#### **CMR Properties**

Carcinogenicity : Based on available data, the classification criteria are not met.

Mutagenicity : In vitro tests did not show mutagenic effects  
In vivo tests did not show mutagenic effects

Teratogenicity : No effects on or via lactation

Reproductive toxicity : Based on available data, the classification criteria are not met.

### **Specific Target Organ Toxicity**

#### **Single exposure**

Inhalation : Target Organs: Central nervous system  
May cause drowsiness or dizziness.

#### **Repeated exposure**

Remark : Oral and inhalation repeated exposure studies demonstrated target organ effects in male rats (kidney) and male and female mice (thyroid) by mechanisms of action that are not relevant to humans

### **Other toxic properties**

#### **Aspiration hazard**

Aspiration hazard if swallowed - can enter lungs and cause damage.

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Aspiration may cause pulmonary oedema and pneumonitis.  
Based on available data, the classification criteria are not met.,

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

#### **12.1. Toxicity**

##### **Data for the product**

###### **Acute toxicity**

###### **Acute aquatic toxicity**

Result : Not expected to be harmful to aquatic organisms.

##### **Component:**

**propan-2-ol**

**CAS-No. 67-63-0**

###### **Acute toxicity**

###### **Fish**

LC50 : 9640 mg/l (Pimephales promelas; 96 h) (flow-through test; OECD Test Guideline 203)

###### **Toxicity to daphnia and other aquatic invertebrates**

LC50 : 9714 mg/l (Daphnia magna; 24 h) (static test; OECD Test Guideline 202)

###### **algae**

EC50 : > 100 mg/l (Scenedesmus subspicatus; 72 h)

LOEC : 1000 mg/l (algae; 8 d)

###### **Bacteria**

EC50 : > 100 mg/l (Bacteria)  
no harming action

#### **12.2. Persistence and degradability**

##### **Data for the product**

###### **Persistence and degradability**

###### **Biodegradability**

Result : 95 % (Exposure Time: 21 d)(OECD Test Guideline 301E)  
biodegradable

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<b>Component:</b>	<b>propan-2-ol</b>	<b>CAS-No. 67-63-0</b>
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### **Persistence and degradability**

#### **Persistence**

Result : Transformation due to hydrolysis not expected to be significant.  
Transformation due to photolysis not expected to be significant.

#### **Biodegradability**

Result : 53 % (aerobic; domestic sewage; Related to: O2 consumption;  
Exposure Time: 5 d)(Directive 67/548/EEC, Annex V, C.5)  
Readily biodegradable

### **12.3. Bioaccumulative potential**

<b>Component:</b>	<b>propan-2-ol</b>	<b>CAS-No. 67-63-0</b>
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### **Bioaccumulation**

Result : log Kow 0.05  
Bioaccumulation is not expected.

### **12.4. Mobility in soil**

#### **Data for the product**

#### **Mobility**

Result : Highly mobile in soils

#### **Distribution among environmental compartments**

Soil : Koc: ca. 1.1

<b>Component:</b>	<b>propan-2-ol</b>	<b>CAS-No. 67-63-0</b>
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#### **Mobility**

Water : The product is water soluble.

Soil : Mobile in soils

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

<b>Component:</b>	<b>propan-2-ol</b>	<b>CAS-No. 67-63-0</b>
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### **Results of PBT and vPvB assessment**

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Result : This substance is not considered to be persistent, bioaccumulating nor toxic (PBT)., This substance is not considered to be very persistent and very bioaccumulating (vPvB).

### **12.6. Other adverse effects**

#### **Data for the product**

#### **Additional ecological information**

Result : Do not flush into surface water or sanitary sewer system. Avoid subsoil penetration.

## **SECTION 13: Disposal considerations**

### **13.1. Waste treatment methods**

Product : Disposal together with normal waste is not allowed. Special disposal required according to local regulations. Do not let product enter drains. Contact waste disposal services.

Contaminated packaging : Dispose of contaminated packaging in the same way as the product. In accordance with local and national regulations. Do not burn, or use a cutting torch on, the empty drum. Risk of explosion.

European Waste Catalogue Number : No waste code according to the European Waste Catalogue can be assigned for this product, as the intended use dictates the assignment. The waste code is established in consultation with the regional waste disposer.

## **SECTION 14: Transport information**

### **14.1. UN number**

|| 1219

### **14.2. UN proper shipping name**

|| ADR : ISOPROPANOL  
|| RID : ISOPROPANOL  
|| IMDG : ISOPROPANOL

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

|| ADR-Class : 3  
(Labels; Classification Code; Hazard identification No; Tunnel restriction code)  
|| 3; F1; 33; (D/E)  
|| RID-Class : 3  
(Labels; Classification Code; Hazard

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identification No)	3; F1; 33
IMDG-Class (Labels; EmS)	: 3
	3; F-E, S-D

### 14.4. Packaging group

ADR	: II
RID	: II
IMDG	: II

### 14.5. Environmental hazards

Environmentally hazardous according to ADR	: no
Environmentally hazardous according to RID	: no
Marine Pollutant according to IMDG-Code	: no

### 14.6. Special precautions for user

Not applicable.

### 14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

IMDG : Not applicable.

## SECTION 15: Regulatory information

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

#### Data for the product

Other regulations : Occupational restrictions: Take note of Dir 92/85/EEC on the safety and health of pregnant workers at work and of Dir 94/33/EC on the protection of young people at work.

#### Component: propan-2-ol CAS-No. 67-63-0

EU. REACH, Annex XVII, : Point Nos.: , 40; Listed  
Marketing and Use  
Restrictions (Regulation  
1907/2006/EC)

EU. Regulation No : EC Number: , 200-661-7; Listed  
1451/2007 [Biocides],  
Annex I, OJ (L 325)

WGK (DE) : WGK 1: slightly water endangering: 135; Classification source  
is Annex 2.

#### Notification status



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### propan-2-ol:

Regulatory List	Notification	Notification number
AICS	YES	
DSL	YES	
EINECS	YES	200-661-7
ENCS (JP)	YES	(2)-207
IECSC	YES	
ISHL (JP)	YES	2-(8)-319
ISHL (JP)	YES	(2)-207
JEX (JP)	YES	(2)-207
KECI (KR)	YES	KE-29363
NZIOC	YES	HSR001180
PICCS (PH)	YES	
TSCA	YES	

### 15.2. Chemical safety assessment

no data available

## SECTION 16: Other information

### Full text of H-Statements referred to under sections 2 and 3.

H225	Highly flammable liquid and vapour.
H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.

### Further information

Key literature references : Supplier information and data from the "Database of registered substances" of the European Chemicals Agency (ECHA) were used to create this safety data sheet.

Other information : The information provided in this Safety Data Sheet is correct to our knowledge at the date of its revision. The information given only describes the products with regard to safety arrangements and is not to be considered as a warranty or quality specification and does not constitute a legal relationship. The information contained in this Safety Data Sheet relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

|| Indicates updated section.