

# SAFETY DATA SHEET

### **PEARLdry**

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

1.1 Product identifier

Product code : KU400PDG01
Product name : PEARLdry

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

**Product use** : Roller and blanket wash for lithographic printing

Uses advised against : None known.

1.3 Details of the supplier of the safety data sheet

Manufacturer / Distributor : Flint Group,

Print Media Europe,

Varn House,

Northbank Industrial Park,

Irlam,

Greater Manchester,

M44 5BL England.

e-mail address of person responsible for this SDS

: MSDS.UnitedKingdom.Irlam.TM@flintgrp.com

1.4 Emergency telephone number (with hours of operation)

+44 (0) 333 333 9879 (8:00 h - 17:00 h)

**History** 

Date of printing : 09.11.2017.

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revision

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Version : 2

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

### 2.1 Classification of the substance or mixture

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

FLAMMABLE LIQUIDS - Category 2

SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2

SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3

ASPIRATION HAZARD - Category 1

AQUATIC HAZARD (LONG-TERM) - Category 3

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

2.2 Label elements

Hazard pictograms :







Signal word : Danger

**Hazard statements** : H225 - Highly flammable liquid and vapor.

H319 - Causes serious eye irritation.

H304 - May be fatal if swallowed and enters airways.

H336 - May cause drowsiness or dizziness.

H412 - Harmful to aquatic life with long lasting effects.

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

**Precautionary statements** 

: P301 + P310 - IF SWALLOWED: Immediately call a POISON CENTER or

physician.

P403 + P233 - Store container tightly closed in well-ventilated place.

P280 - Wear protective gloves and eye or face protection.

P305 + P351 - IF IN EYES: Rinse cautiously with water for several minutes. P338 - Remove contact lenses, if present and easy to do. Continue rinsing.

P210 - Keep away from flames and hot surfaces. - No smoking.

P370 + P378 - In case of fire: Use alcohol-resistant foam to extinguish.

P331 - Do NOT induce vomiting.

P501 - Dispose of contents and container in accordance with all local, regional,

national and international regulations.

P405 - Store locked up.

Supplemental label

elements

: Not applicable.

**Hazardous ingredients** 

propan-2-ol

Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics

Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and

articles

: Not applicable.

2.3 Other hazards

PBT : P: Not available. B: Not available. T: Not available.

vPvB : vP: Not available. vB: Not available.

### SECTION 3: Composition/information on ingredients

### 3.2 Mixtures : Mixture

Product/ingredient name	Identifiers	%	Classification Regulation (EC) No. 1272/2008 [CLP]	Туре
propan-2-ol	REACH #: 01-2119457558-25 EC: 200-661-7 CAS: 67-63-0 Index: 603-117-00-0	≥75 - ≤90	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336	[1]
Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics	REACH #: 01-2119463258-33 EC: 919-857-5 CAS: 64742-48-9 (CAS valid outside EU) Index: 649-327-00-6	≥10 - ≤16	Flam. Liq. 3, H226 STOT SE 3, H336 Asp. Tox. 1, H304 EUH066	[1]
Solvent naphtha (petroleum), light arom.	REACH #: 01-2119455851-35 EC: 265-199-0 CAS: 64742-95-6 Index: 649-356-00-4	≤3.4	Flam. Liq. 3, H226 STOT SE 3, H335 STOT SE 3, H336 Asp. Tox. 1, H304 Aquatic Chronic 2, H411 EUH066	[1]

See Section 16 for the full text of the H statements declared above.

There are no additional ingredients present which, within the current knowledge of the supplier, are classified and contribute to the classification of the substance and hence require reporting in this section.

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### SECTION 3: Composition/information on ingredients

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment, are PBTs, vPvBs or Substances of equivalent concern, or have been assigned a workplace exposure limit and hence require reporting in this section.

#### **Type**

- [1] Substance classified with a health or environmental hazard
- [2] Substance with a workplace exposure limit
- [3] Substance meets the criteria for PBT according to Regulation (EC) No. 1907/2006, Annex XIII
- [4] Substance meets the criteria for vPvB according to Regulation (EC) No. 1907/2006, Annex XIII
- [5] Substance of equivalent concern

Occupational exposure limits, if available, are listed in Section 8.

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

### 4.1 Description of first aid measures

General : In all cases of doubt, or when symptoms persist, seek medical attention. Never

give anything by mouth to an unconscious person. If unconscious, place in

recovery position and seek medical advice.

**Inhalation**: Remove to fresh air. Keep person warm and at rest. If not breathing, if

breathing is irregular or if respiratory arrest occurs, provide artificial respiration

or oxygen by trained personnel.

**Skin contact**: Remove contaminated clothing and shoes. Wash skin thoroughly with soap

and water or use recognized skin cleanser. Do NOT use solvents or thinners.

**Eye contact**: Check for and remove any contact lenses. Immediately flush eyes with running

water for at least 15 minutes, keeping eyelids open. Seek immediate medical

attention/advice.

Ingestion : Get medical attention immediately. Call a poison center or physician. Remove

dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. Aspiration hazard if swallowed. Can enter lungs and cause damage. Do not induce vomiting. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Give nothing by mouth. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or

waistband.

**Protection of first-aiders** : No action shall be taken involving any personal risk or without suitable training.

If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous

to the person providing aid to give mouth-to-mouth resuscitation.

Use suitable protective equipment (section 8).

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

See toxicological information (Section 11)

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

Notes to physician : Treat symptomatically. Contact poison treatment specialist immediately if large

quantities have been ingested or inhaled.

**Specific treatments** : No specific treatment.

# **SECTION 5: Firefighting measures**

### 5.1 Extinguishing media

Suitable Extinguishing media : Recommended:, alcohol-resistant foam, CO2, powders, water spray

Extinguishing media not to be : Do not use water jet.

used

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

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

Hazards from the substance or mixture

Highly flammable liquid and vapor. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. Runoff to sewer may create fire or explosion hazard. This material is harmful to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway. sewer or drain.

Hazardous thermal decomposition products : Fire will produce dense black smoke. Exposure to decomposition products may cause a health hazard.

Decomposition products may include the following materials:

carbon dioxide carbon monoxide

### 5.3 Advice for firefighters

Special protective actions for fire-fighters

: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool. Do not release runoff from fire to drains or watercourses.

Special protective equipment for fire-fighters

Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.

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

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

For non-emergency personnel

: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

For emergency responders

: If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

#### 6.2 Environmental precautions

Do not allow to enter drains or watercourses. If the product contaminates lakes, rivers, or sewers, inform the appropriate authorities in accordance with local regulations.

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

Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Preferably clean with a detergent. Avoid using solvents.

#### 6.4 Reference to other sections

See Section 1 for emergency contact information.

See Section 13 for additional waste treatment information.

See Section 8 for information on appropriate personal protective equipment.

# **SECTION 7: Handling and storage**

### 7.1 Precautions for safe handling

Vapors are heavier than air and may spread along floors. Vapors may form explosive mixtures with air. Prevent the creation of flammable or explosive concentrations of vapors in air and avoid vapor concentrations higher than the occupational exposure limits. In addition, the product should only be used in areas from which all naked lights and other sources of ignition have been excluded. Electrical equipment should be protected to the appropriate standard. To dissipate static electricity during transfer, ground drum and connect to receiving container with bonding strap. Operators should wear antistatic footwear and clothing and floors should be of the conducting type. Keep container tightly closed. Keep away from heat, sparks and flame. No sparking tools should be used. Avoid contact with skin and eyes. Avoid the inhalation of dust, particulates, spray or mist arising from the application of this mixture.

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

Remove contaminated clothing and protective equipment before entering eating areas. Workers should wash hands and face before eating, drinking and smoking. Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Put on appropriate personal protective equipment (see Section 8). Always keep in containers made from the same material as the original one. Comply with the health and safety at work laws.

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

Store in accordance with all local, regional, national and international regulations.

Store in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10).

Observe label precautions. Keep container tightly closed and in a well-ventilated place.

Keep away from sources of ignition - No smoking. Prevent unauthorized access. Containers that have been opened must be carefully resealed and kept upright to prevent leakage.

### Seveso Directive - Reporting thresholds (in tonnes)

### Danger criteria

Category	Notification and MAPP threshold	Safety report threshold
5c: Flammable liquids 2 and 3 not falling under P5a or P5b 7b: Highly flammable (R11)	5000 5000	50000 50000

### 7.3 Specific end use(s)

Not applicable.

#### 7.4 Additional information

Not applicable.

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

### 8.1 Control parameters

Ingredient name	Occupational exposure limits
propan-2-ol	EH40/2005 WELs (United Kingdom (UK), 12/2011). STEL: 1250 mg/m³ 15 minutes. STEL: 500 ppm 15 minutes. TWA: 999 mg/m³ 8 hours. TWA: 400 ppm 8 hours.

Other Exposure limits

: CMR: See toxicological information (Section 11)

procedures

**Recommended monitoring**: If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) European Standard EN 482 (Workplace atmospheres - General requirements for the performance of procedures for the measurement of chemical agents) Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

#### **DNELs/DMELs**

No DNELs/DMELs available.

#### **PNECs**

No PNECs available.

### 8.2 Exposure controls

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

Provide adequate ventilation. Where reasonably practicable, this should be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations of particulates and solvent vapors below the OEL, suitable respiratory protection must be worn.

### Individual protection measures

Respiratory protection

Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

**Body protection** 

: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. When there is a risk of ignition from static electricity, wear anti-static protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves. Refer to European Standard EN 1149 for further information on material and design requirements and test methods.

Hand protection

: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.

**Gloves** 

: For prolonged or repeated handling, use the following type of gloves:

Recommended: nitrile rubber, butyl rubber, foil, fluor rubber

May be used: neoprene Not recommended: PVC

Other skin protection

Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Eye/face protection

Use safety eyewear designed to protect against splash of liquids.

**Environmental exposure controls** 

Do not allow to enter drains or watercourses.

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

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

**Appearance** 

Physical state : Liquid.
Color : Colorless.

Odor : Alcohol-like.

Odor threshold : Not available.
pH : Not available.
Melting point : Not available.
Boiling point : >= 82 °C

Flash point : Closed cup: 12°C [Measured]

Evaporation rate : Not available.
Flammability (solid, gas) : Not applicable.
Burning time : Not applicable.
Burning rate : Not applicable.

**Explosion limits** 

 Lower:
 : 1 %Vol

 Upper:
 : 13 %Vol

 Vapor pressure
 : < 34 hPa</td>

 Vapor density
 : Not available.

 Density
 : ~ 0.8 g/cm³

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

**Solubility** : Soluble in water in any proportion.

Partition coefficient: n-

octanol/water

: Not available.

**Auto-ignition temperature** : ca 280 °C **Decomposition temperature** : Not available.

**Viscosity** : Kinematic (40°C (104°F)): <0.06 cm²/s (<6 cSt)

Explosive properties : Not available.

Oxidizing properties : Not available.

9.2 Other information

**SADT** : Not available.

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

#### 10.1 Reactivity

Not available.

#### 10.2 Chemical stability

Stable under recommended storage and handling conditions (see Section 7).

#### 10.3 Possibility of hazardous reactions

Under normal conditions of storage and use, hazardous reactions will not occur.

#### 10.4 Conditions to avoid

Avoid all possible sources of ignition (spark or flame).

### 10.5 Incompatible materials

Keep away from the following materials to prevent strong exothermic reactions:

oxidizing agents, strong alkalis, strong acids

### 10.6 Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

# **SECTION 11: Toxicological information**

### 11.1 Information on toxicological effects

There are no data available on the mixture itself. The product is classified as hazardous according to Regulation (EC) 1272/2008 as amended. See sections 2 and 3 for details.

Exposure to component solvent vapor concentrations in excess of the stated occupational exposure limit may result in adverse health effects such as mucous membrane and respiratory system irritation and adverse effects on the kidneys, liver and central nervous system. Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and, in extreme cases, loss of consciousness. Solvents may cause some of the above effects by absorption through the skin. Repeated or prolonged contact with the mixture may cause removal of natural fat from the skin, resulting in non-allergic contact dermatitis and absorption through the skin. Ingestion may cause gastrointestinal irritation and diarrhea. If splashed in the eyes, the liquid may cause irritation and reversible damage.

### **Substances / Mixtures**

### Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
propan-2-ol	LD50 Dermal	Rabbit	12800 mg/kg	-
	LD50 Oral	Rat	5045 mg/kg	-
Solvent naphtha (petroleum),	LD50 Oral	Rat	8400 mg/kg	-
light arom.				

#### **Acute toxicity estimates**

Not available.

Irritation/Corrosion : Causes eye irritation.

Sensitization : Not available.

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

Mutagenicity: Not available.Carcinogenicity: Not available.Reproductive toxicity: Not available.Specific target organ: Not available.

toxicity (single exposure)

Specific target organ : Not available.

toxicity (repeated exposure)

**Aspiration hazard**: Aspiration hazard if swallowed. Can enter lungs and cause damage.

Chronic toxicity : Not available.Teratogenicity : Not available.

**Other information** 

**Toxicokinetics** 

**Absorption** : Not available.

Distribution :

Metabolism: Not available.Elimination: Not available.

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

There are no data available on the mixture itself. This material is harmful to aquatic life with long lasting effects. Do not empty into drains or watercourses. See Sections 2 and 3 for details.

### 12.1 Toxicity

Product/ingredient name	Result	Species	Exposure
	Acute LC50 1400000 µg/l Marine water	Crustaceans - Crangon crangon	48 hours 48 hours 96 hours

### 12.2 Persistence and degradability

Not available.

#### 12.3 Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
propan-2-ol Solvent naphtha (petroleum),	0.05	- 10 to 2500	low high
light arom.		10 10 2000	9

### 12.4 Mobility in soil

Not available.

### 12.5 Results of PBT and vPvB assessment

PBT : P: Not available. B: Not available. T: Not available.

vPvB : vP: Not available. vB: Not available.

### 12.6 Other adverse effects

# **SECTION 13: Disposal considerations**

### 13.1 Waste treatment methods

Do not allow to enter drains or watercourses.

Dispose of according to all federal, state and local applicable regulations.

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

**Methods of disposal** 

The generation of waste should be avoided or minimized wherever possible. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe way. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Hazardous waste : Yes.

**European waste catalogue (EWC)** 

Waste code	Waste designation
07 07 04*	other organic solvents, washing liquids and mother liquors

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

**Transport within user's premises:** always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

International transport regulations

**14.1 UN number** : UN1210

14.2 Proper shipping name : PRINTING INK RELATED MATERIAL

14.3 Transport hazard class(es) : 3

**(1)** 

14.4 Packing group : II

14.5 Environmental hazards : Not applicable.14.6 Special precautions for : Not applicable.

<u>user</u>

14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code

Not applicable.

#### **Additional information**

**ADR ADN** 

Classification code : F1

Special provisions : 163 640D

Hazard identification : 33

number

ADR Tunnel Code: : (D/E)
Limited quantity : 5 L

**IMDG** 

**Emergency schedules** 

: F-E, S-D

(EmS)

Marine pollutant : Not applicable.

Limited quantity : 51

IATA Max. Qty Packaging instruction

Passenger and Cargo :

**Aircraft** 

5 L 353

Cargo Aircraft Only : 60 L 364 Limited quantity : 1 L Y341

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

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

#### EU Regulation (EC) No. 1907/2006 (REACH)

### Annex XIV - List of substances subject to authorization

#### **Annex XIV**

None of the components are listed.

#### Substances of very high concern

None of the components are listed.

**Annex XVII - Restrictions on** 

the manufacture, placing on

the market and use of certain dangerous

substances, mixtures and

articles

**VOC** content **: ≥**99.3 % 784.6 g/L

**Europe inventory** : All components are listed or exempted.

: Not applicable.

**National regulations** 

Industrial use : The information contained in this safety data sheet does not constitute the

user's own assessment of workplace risks, as required by other health and safety legislation. The provisions of the national health and safety at work

regulations apply to the use of this product at work.

#### 15.2 Chemical Safety Assessment

This product contains substances for which Chemical Safety Assessments are still required.

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

**CEPE MSDS Code** 

Indicates information that has changed from previously issued version.

Abbreviations and

acronyms

: ATE = Acute Toxicity Estimate

CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No.

1272/20081

DMEL = Derived Minimal Effect Level DNEL = Derived No Effect Level

EUH statement = CLP-specific Hazard statement PBT = Persistent, Bioaccumulative and Toxic PNEC = Predicted No Effect Concentration RRN = REACH Registration Number

vPvB = Very Persistent and Very Bioaccumulative

### Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Classification	Justification
Fam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336 Asp. Tox. 1, H304 Aquatic Chronic 3, H412	On basis of test data Calculation method Calculation method Calculation method Calculation method
Full tout of alphanoista dill	Liberty flamens also limited and conserva

Full text of abbreviated H

statements

<b>⊬</b> 225	Highly flammable liquid and vapor.
H226	Flammable liquid and vapor.
H304	May be fatal if swallowed and enters airways.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.
	H226 H304 H319 H335 H336 H411

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Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II

**PEARLdry** 

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

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#### **Notice to reader**

The information in this Safety Data Sheet is based on the present state of knowledge and current legislation. It provides guidance on health, safety and environmental aspects of the product and should not be construed as any guarantee of technical performance or suitability for particular applications. The product should not be used for purposes other than those shown in Section 1 without first referring to the supplier and obtaining written handling instructions. As the specific conditions of use of the product are outside the supplier's control, the user is responsible for ensuring that the requirements of relevant legislation are complied with. The information contained in this safety data sheet does not constitute the user's own assessment of workplace risks, as required by other health and safety legislation.

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