

# SAFETY DATA SHEET

Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by UK REACH Regulation SI 2019/758

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

1.1 Product identifier

**Catalogue Number** 

**Product description** 

**Product name** BioProcess storage and delivery solution, 20

vol% Ethanol

Ethanol solution (Ethyl alcohol solution)

**BIOPR SYS** 

Product type Liquid.

Other means of identification Not available.

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

Eaboratory chemicals Liquid chromatography.

Scientific research and development

Consumer use

1.3 Details of the supplier of the safety data sheet

Supplier Hours of operation Amersham Place 08.30 - 17.00

Little Chalfont Buckinghamshire HP7 9NA United Kingdom

+44 1494 508000

Person who prepared the SDS: sds\_author@cytiva.com

1.4 Emergency telephone number

United Kingdom (UK) Cytiva UK Call INFOTRAC 24 Hour number: Amersham Place 001-352-323-3500 (Calll Collect).

Little Chalfont Buckinghamshire HP7 9NA t: 0870 606 1921

National advisory body/Poison Centre

United Kingdom (UK) Health professionals should contact the National Poisons Information Service (NPIS) by telephone,

or use TOXBASE www.toxbase.org

NPIS http://www.npis.org/ advise that others seeking specific information on poisons should contact:

In England and Wales: NHS Direct - 0845 4647 or 111

In Scotland: NHS 24 - 08454 24 24 24

In N Ireland: Contact your local GP or pharmacist during normal hours; click here (www.

gpoutofhours.hscni.net/) for GP services Out-of-Hours.



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

#### 2.1 Classification of the substance or mixture

Product definition Mixture

Classification according to UK CLP/GHS

Flam. Liq. 3, H226

The product is classified as hazardous according to UK CLP Regulation SI 2019/720 as amended.

Ingredients of unknown toxicity \( \tilde{16} \).5 percent of the mixture consists of component(s) of unknown acute dermal toxicity

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

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

#### 2.2 Label elements

Hazard pictograms



Signal word Warning

Hazard statements Flammable liquid and vapour.

**Precautionary statements** 

General Not applicable.

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

Response Not applicable.

Storage Not applicable.

Disposal Dispose of contents and container in accordance with all local, regional, national and international

regulations.

Supplemental label elements 

Not applicable.

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

dangerous substances mixtures and articles

Special packaging requirements

Containers to be fitted with child-resistant fastenings

Not applicable.

Tactile warning of danger 
Not applicable.

# 2.3 Other hazards

Product meets the criteria for PBT or vPvB according to Regulation (EC) No. 1907/2006, Annex XIII

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

Other hazards which do not result in classification

None known.

# SECTION 3: Composition/information on ingredients

3.2 Mixtures Mixture

 Product/ingredient name
 Identifiers
 %
 Classification
 Type

 6thanol
 REACH #: 01-2119457610-43 EC: 200-578-6
 14 - 19 Flam. Liq. 2, H225 EC: 200-578-6
 [1] [2]

CAS: 64-17-5 Index: 603-002-00-5

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 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 physical, health or environmental hazard

[2] Substance with a workplace exposure limit

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

# SECTION 4: First aid measures

#### 4.1 Description of first aid measures

Eye contact Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check

for and remove any contact lenses. Get medical attention if irritation occurs.

Inhalation Remove victim to fresh air and keep at rest in a position comfortable for breathing.

Skin contact Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get

medical attention if symptoms occur.

give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical

personnel.

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

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

#### Over-exposure signs/symptoms

Eye contactNo specific data.InhalationNo specific data.Skin contactNo specific data.IngestionNo specific data.

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

been ingested or inhaled.

**Specific treatments** No specific treatment.

# **SECTION 5: Firefighting measures**

### 5.1 Extinguishing media

Unsuitable extinguishing media To not use water jet.

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

Hazards from the substance or

mixture

Flammable liquid and vapour. Runoff to sewer may create fire or explosion hazard. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent

explosion.

Hazardous combustion

products

Decomposition products may include the following materials:

carbon dioxide carbon monoxide

#### 5.3 Advice for firefighters

Special precautions for fire-

fighters

Fromptly 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.

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 British standard BS 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 spilt material. Shut off all ignition sources. No flares, smoking or flames in hazard

area. Put on appropriate personal protective equipment.

6.2 Environmental precautions

Kvoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

# 6.3 Methods and material for containment and cleaning up

Small spill

Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Absorb with an inert material and place in an appropriate waste disposal

proof equipment. Absorb with an inert material and place in an approp container. Dispose of via a licensed waste disposal contractor.

Large spill

Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosionproof equipment. Approach the release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilt product. 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.

6.4 Reference to other

sections

See Section 1 for emergency contact information.

See Section 8 for information on appropriate personal protective equipment.

See Section 13 for additional waste treatment information.

# SECTION 7: Handling and storage

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

#### 7.1 Precautions for safe handling

Protective measures

₱ut on appropriate personal protective equipment (see Section 8). Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapour or mist. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Take precautionary measures against electrostatic discharges. To avoid fire or explosion, dissipate static electricity during transfer by earthing and bonding containers and equipment before transferring material. Empty containers retain product residue and can be hazardous. Do not reuse container.

hygiene

Advice on general occupational Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

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

Store between the following temperatures: 4 to 30°C (39.2 to 86°F). Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Eliminate all ignition sources. Separate from oxidising materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

### Seveso Directive - Reporting thresholds

**Danger criteria** 

**Notification and MAPP** Category Safety report threshold

threshold

₱5c 5000 tonnes 50000 tonnes

7.3 Specific end use(s)

Recommendations Analytical chemistry. Liquid chromatography. Scientific research and development.

Industrial sector specific

solutions

**e**thanol

Not available.

### SECTION 8: Exposure controls/personal protection

#### 8.1 Control parameters

Occupational exposure limits

Product/ingredient name **Exposure limit values** EH40/2005 WELs (United Kingdom (UK), 1/2020)

> TWA 8 hours: 1000 ppm. TWA 8 hours: 1920 mg/m<sup>3</sup>.

# **Biological exposure indices**

No exposure indices known.

Recommended monitoring procedures

Reference should be made to monitoring standards, such as the following: British Standard BS EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) British Standard BS EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) British Standard BS 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**

Product/ingredient name Result

ethanol

DNEL - Workers - Long term - Inhalation

380 mg/m³ Effects: Systemic

DNEL - General population - Long term - Oral

87 mg/kg bw/day Effects: Systemic

DNEL - General population - Long term - Inhalation

114 mg/m³ Effects: Systemic

DNEL - General population - Long term - Dermal

206 mg/kg bw/day Effects: Systemic

**DNEL - Workers - Long term - Dermal** 

343 mg/kg bw/day Effects: Systemic

DNEL - General population - Short term - Inhalation

950 mg/m³ Effects: Local

DNEL - Workers - Short term - Inhalation

1900 mg/m³ Effects: Local

#### **PNECs**

Not available.

#### 8.2 Exposure controls

Appropriate engineering controls

Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapour or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.

#### **Individual protection measures**

Hygiene measures

Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Eye/face protection

Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields. Recommended: safety glasses with side-shields

#### **Skin protection**

**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. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated. 1 - 4 hours (breakthrough time): butyl rubber, neoprene

**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 British Standard BS EN 1149 for further information on material and design requirements and test methods. Recommended: lab coat

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.

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. Recommended: A respirator is not needed under normal and intended conditions of product use.

Environmental exposure controls

Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

Article Number BIOPR\_SYS

# SECTION 9: Physical and chemical properties

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

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

**Appearance** 

Physical state Liquid. Colour Colourless.

Odour Alcohol-like. [Slight]

**Odour threshold** 180 ppm Not available. Melting point/freezing point Not available. Initial boiling point and boiling Not available.

Not available.

Upper/lower flammability or

Flammability (solid, gas)

explosive limits

Not available.

Closed cup: 38 to 43°C Flash point

Not available.

**Auto-ignition temperature** Ingredient name **e**thanol

°C Method DIN 51794 455

**Decomposition temperature** Not available.

Dynamic (room temperature): Not available. **Viscosity** 

Kinematic (room temperature): Not available.

Kinematic (40°C): Not available.

Solubility(ies)

Media Result cold water Easily soluble hot water Easily soluble

Solubility in water Not available.

Miscible with water Yes.

Partition coefficient: n-octanol/

water

Not applicable.

Not available. Vapour pressure

	<u>Va</u>	Vapour Pressure at 20°C		Vapour pressure at 50°C		
Ingredient name	mm Hg	kPa	Method	mm Hg	kPa	Method
ethanol	42.94865	5.7				
water	17.5	2.3				
Evaporation rate	Not available.					
Relative density	Not available.					
Vapour density	Not available.					
Explosive properties	Not available.					
Oxidising properties	Not available.					
Particle characteristics						
Median particle size	Ñot applicable.					

### 9.2 Other information

Not available.

**Burning time** Not applicable. **Burning rate** Not applicable. Solubility in water Not available.

# SECTION 10: Stability and reactivity

No specific test data related to reactivity available for this product or its ingredients. 10.1 Reactivity

10.2 Chemical stability The product is stable.

10.3 Possibility of hazardous

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

Kvoid all possible sources of ignition (spark or flame). Do not pressurise, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition.

Reactive or incompatible with the following materials: 10.5 Incompatible materials

oxidising materials

10.6 Hazardous

10.4 Conditions to avoid

decomposition products

 $oldsymbol{rac{V}{U}}$ nder normal conditions of storage and use, hazardous decomposition products should not be produced.

# **SECTION 11: Toxicological information**

#### 11.1 Information on toxicological effects

# **Acute toxicity**

Product/ingredient name Result

**Ethanol** Rat - Oral - LD50

7060 mg/kg

Toxic effects: Lung, Thorax, or Respiration - Other changes

Rat - Inhalation - LC50 Vapour

124700 mg/m³ [4 hours]

Conclusion/Summary [Product] Not available.

#### **Acute toxicity estimates**

	Product/ingredient name	Oral (mg/ kg)	Dermal (mg/ kg)	Inhalation (gases) (ppm)	Inhalation (vapours) (mg/l)	Inhalation (dusts and mists) (mg/
<b>e</b> thanol		7000	N/A	N/A	124.7	N/A

#### Skin corrosion/irritation

Not available.

Conclusion/Summary [Product] Repeated exposure may cause skin dryness or cracking.

#### Serious eye damage/eye irritation

Not available.

Conclusion/Summary [Product] Not available.

#### Respiratory corrosion/irritation

Not available.

Conclusion/Summary [Product] Not available.

# Respiratory or skin sensitization

Not available.

#### Skin

Conclusion/Summary [Product] Not available.

### Respiratory

Conclusion/Summary [Product] Not available.

#### Germ cell mutagenicity

Not available.

Conclusion/Summary [Product] Not available.

#### Carcinogenicity

Not available.

Conclusion/Summary [Product] Not available.

### Reproductive toxicity

Not available.

Conclusion/Summary [Product] Not available.

#### Specific target organ toxicity (single exposure)

Not available.

### Specific target organ toxicity (repeated exposure)

Not available.

### **Aspiration hazard**

Not available.

Information on likely routes of

Routes of entry anticipated: Oral, Dermal, Inhalation, Eyes.

exposure

#### Potential acute health effects

InhalationNo known significant effects or critical hazards.IngestionNo known significant effects or critical hazards.Skin contactNo known significant effects or critical hazards.Eye contactNo known significant effects or critical hazards.

### Symptoms related to the physical, chemical and toxicological characteristics

InhalationNo specific data.IngestionNo specific data.Skin contactNo specific data.Eye contactNo specific data.

### Delayed and immediate effects as well as chronic effects from short and long-term exposure

Short term exposure

Potential immediate effects Not available.

Potential delayed effects Not available.

Long term exposure

Potential immediate effects Not available.

Potential delayed effects Not available.

# Potential chronic health effects

Not available.

Conclusion/Summary [Product] Not available.

General

No known significant effects or critical hazards.

Carcinogenicity

No known significant effects or critical hazards.

Mutagenicity

No known significant effects or critical hazards.

Reproductive toxicity

No known significant effects or critical hazards.

Other information Not available.

# **SECTION 12: Ecological information**

#### 12.1 Toxicity

Product/ingredient name

ethanol

Result

Acute - LC50 - Marine water Fish - Bleak - Alburnus alburnus

Size: 8 to 10 cm 11 g/l [96 hours] Effect: Mortality

Chronic - NOEC - Marine water

Algae - Green algae - *Ulva pertusa* 

4.995 mg/l [96 hours] Effect: Reproduction

Acute - EC50 - Fresh water

Crustaceans - Ostracod - Cypris subglobosa

1074 mg/l [48 hours] Effect: Intoxication

Chronic - NOEC - Fresh water

Daphnia - Water flea - Daphnia magna - Neonate

Age: <24 hours 100 µl/l [21 days] Effect: Mortality

Acute - EC50 - Marine water Algae - Green algae - Ulva pertusa

Size: 9.4 mm 3306 mg/l [96 hours] Effect: Reproduction

Conclusion/Summary [Product] Not available.

12.2 Persistence and degradability

Product/ingredient name Result thanol Aerobic

100% [20 days] - Readily

Conclusion/Summary [Product] Not available.

Product/ingredient name Aquatic half-life Photolysis Biodegradability

Ethanol - - Readily

#### 12.3 Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
<b>№</b> 10 - ≤25	-0.35	0.66	Low

#### 12.4 Mobility in soil

Soil/water partition coefficient Not available.

**Mobility** Not available.

12.5 Results of PBT and vPvB assessment

€thanol No N/A No No No N/A No

**12.6 Other adverse effects** No known significant effects or critical hazards.

# **SECTION 13: Disposal considerations**

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

#### 13.1 Waste treatment methods

**Product** 

Methods of disposal

The generation of waste should be avoided or minimised wherever possible. 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. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction.

Hazardous waste Within the present knowledge of the supplier, this product is not regarded as hazardous waste, as

defined by EU Directive 2008/98/EC.

Waste catalogue

Waste code	Waste designation
<b>0</b> 7 07 99	wastes not otherwise specified

#### **Packaging**

Methods of disposal

Special precautions

The generation of waste should be avoided or minimised wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.

This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Vapour from product residues may create a highly flammable or explosive atmosphere inside the container. Do not cut, weld or grind used containers unless they have been cleaned thoroughly internally. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

# **SECTION 14: Transport information**

	ADR/RID	ADN	IMDG	IATA
14.1 UN number	Not regulated.	Not regulated.	Not regulated.	Not regulated.
14.2 UN proper shipping name	-	-	-	-
14.3 Transport hazard class(es)	-	-	-	-
14.4 Packing group	-	-	-	-
14.5 Environmental hazards	No.	No.	No.	No.
Additional information	Remarks ADR - Special Provision 144: An aqueous solution containing not more than 24% alcohol by volume is not subject to the requirements of ADR.	Remarks ADN - Special Provision 144: An aqueous solution containing not more than 24% alcohol by volume is not subject to the requirements of ADN.	Special provisions SPECIAL PROVISION 144	Remarks IATA Special Provision A 58 - Aqueous solutions containing 24% or less alcohol by volume is not subject to these regulations.

14.6 Special precautions for user

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.

14.7 Transport in bulk according to IMO instruments

Not available.

# **SECTION 15: Regulatory information**

# 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture UK (GB)/REACH

# Annex XIV - List of substances subject to authorisation

**Annex XIV** 

None of the components are listed.

Substances of very high concern

None of the components are listed.

Ozone depleting substances

Not listed.

**Prior Informed Consent (PIC)** 

Not listed.

**Persistent Organic Pollutants** 

Not listed.

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

Product/ingredient name

**Designation [Usage]** 

BioProcess storage and delivery solution, 20 vol% ≥90 **EtOH** 

3

Page: 10/12

Version 1

Labelling

Not applicable.

#### **Seveso Directive**

This product is controlled under the Seveso Directive.

#### **EU regulations**

Industrial emissions Not listed

(integrated pollution prevention and control) - Air

Industrial emissions Not listed

(integrated pollution prevention and control) -

Water

#### International regulations

#### Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

#### **Montreal Protocol**

Not listed.

#### Stockholm Convention on Persistent Organic Pollutants

Not listed.

#### Rotterdam Convention on Prior Informed Consent (PIC)

Not listed

#### **UNECE Aarhus Protocol on POPs and Heavy Metals**

Not listed

#### **Inventory list**

United States All components are active or exempted.

Canada inventory All components are listed or exempted.

China All components are listed or exempted.

Japan inventory (CSCL): All components are listed or exempted.

Japan inventory (ISHL): Not determined.

15.2 Chemical safety

assessment

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

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

Indicates information that has changed from previously issued version.

Abbreviations and acronyms ATE = Acute Toxicity Estimate

GB CLP = UK CLP (EC No 1272/2008) on the Classification, Labelling and Packaging of Substances and Mixtures as amended by (EU Exit) Regulations 2019 No. 720 and amendments

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

EUH statement = GB CLP-specific Hazard statement

N/A = Not available

PBT = Persistent, Bioaccumulative and Toxic PNEC = Predicted No Effect Concentration RRN = REACH Registration Number

SGG = Segregation Group

vPvB = Very Persistent and Very Bioaccumulative

# Procedure used to derive the classification

Classification	Justification
Flam. Liq. 3, H226	On basis of test data

Full text of classifications
Flam. Liq. 2
FlamMABLE LIQUIDS - Category 2
Flam. Liq. 3
FLAMMABLE LIQUIDS - Category 3

Date of printing10 September 2025Date of issue/ Date of revision10 September 2025Date of previous issue03 February 2022

Version 1

### Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

Article Number BIOPR\_SYS

