

Safety Data Sheet
according to UK REACH (SI 2020/1577) as amended

Printing date 29.10.2025

Version number 1

Revision: 29.10.2025

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

· **1.1 Product identifier**

· **Trade name: Red Blood Cell Lysis buffer, RBC, 10X**

· **Product Code: 20-7305**

· **Registration number Mixture**

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

· **Product category PC21** Laboratory chemicals

· **Application of the substance / the mixture** Laboratory chemicals

· **Uses advised against**

Any use involving aerosol formation or vapour release in excess of the assigned Workplace Exposure Limit where workers are exposed without suitable Respiratory Protective Equipment.

Any use carrying a risk of direct contact with eyes/skin where workers are exposed without adequate personal protective equipment (PPE).

Processes involving the use of incompatible substances - refer to section 10.

Processes involving extreme heat use advised against.

The product is strictly intended for industrial or professional use only.

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

· **Supplier:**

Severn Biotech Ltd.

Unit 2,

Park Lane,

Kidderminster,

Worcestershire.

DY11 6TJ

UK

Tel: 0044 1562 825286

Fax: 0044 1562 825284

email: info@severnbiotech.com

· **Further information obtainable from:** Product safety department.

· **1.4 Emergency telephone number:**

Members of the public seeking specific information on poisons should contact:

In England and Wales: NHS 111 - dial 111

In Scotland: NHS 24 - dial 111

SECTION 2: Hazards identification

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

· **Classification according to GB-CLP**

Acute Tox. 4 H332 Harmful if inhaled.

Skin Sens. 1 H317 May cause an allergic skin reaction.

Muta. 2 H341 Suspected of causing genetic defects.

Carc. 1B H350 May cause cancer.

· **2.2 Label elements**

· **Labelling according to GB-CLP** The product is classified and labelled according to the GB CLP regulation.

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- **Hazard pictograms**



GHS07 GHS08

- **Signal word** Danger

- **Hazard-determining components of labelling:**

Formaldehyde
Methanol

- **Hazard statements**

H332 Harmful if inhaled.
H317 May cause an allergic skin reaction.
H341 Suspected of causing genetic defects.
H350 May cause cancer.

- **Precautionary statements**

P261 Avoid breathing mist/vapours/spray.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P312 Call a POISON CENTER/doctor if you feel unwell.
P405 Store locked up.
P501 Dispose of contents/container in accordance with local regulations.

- **2.3 Other hazards**

- **Results of PBT and vPvB assessment**

· **PBT:** Not applicable.
· **vPvB:** Not applicable.

SECTION 3: Composition/information on ingredients

- **3.2 Mixtures**

- **Description:** Aqueous solution of the substance(s) listed below.

- **Dangerous components:**

CAS: 111-46-6 EINECS: 203-872-2 Index number: 603-140-00-6 Reg.nr.: 01-2119457857-21-XXXX	Diethylene glycol ⚠ Acute Tox. 4, H302	10 – 25%
CAS: 7647-14-5 EINECS: 231-598-3 Reg.nr.: 01-2119485491-33-XXXX	Sodium chloride substance with a workplace exposure limit	2.5 – 10%
CAS: 50-00-0 EINECS: 200-001-8 Index number: 605-001-00-5 Reg.nr.: 01-2119488953-20-XXXX	Formaldehyde ⚠ Acute Tox. 3, H301; Acute Tox. 3, H311; Acute Tox. 2, H330; ⚠ Muta. 2, H341; Carc. 1B, H350; ⚠ Skin Corr. 1B, H314; ⚠ Skin Sens. 1A, H317 Note: B, D ATE: LD50 dermal: 300 mg/kg Specific concentration limits: Skin Corr. 1B; H314: C ≥ 25 % Skin Irrit. 2; H315: 5 % ≤ C < 25 % Eye Irrit. 2; H319: 5 % ≤ C < 25 % Skin Sens. 1; H317: C ≥ 0.2 % STOT SE 3; H335: C ≥ 5 %	2.5 – < 5%

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CAS: 67-56-1 EINECS: 200-659-6 Index number: 603-001-00-X Reg.nr.: 01-2119433307-44-XXXX	Methanol ⚠ Flam. Liq. 2, H225; ⚠ Acute Tox. 3, H301; Acute Tox. 3, H311; Acute Tox. 3, H331; ⚠ STOT SE 1, H370 ATE: LD50 oral: 100 mg/kg LD50 dermal: 300 mg/kg LC50/4 h inhalative: 3 mg/l Specific concentration limits: STOT SE 1; H370: C ≥ 10 % STOT SE 2; H371: 3 % ≤ C < 10 %	1 – 2.5%
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- **Additional information:** For the wording of the listed hazard phrases refer to section 16.

SECTION 4: First aid measures

· 4.1 Description of first aid measures

· **General information:**

Immediately remove any clothing soiled by the product.

In case of irregular breathing or respiratory arrest provide artificial respiration.

Personal protection for the First Aider.

· **After inhalation:**

In case of inhalation:

- Provide fresh air.
- In case of breathing difficulties administer oxygen.
- No mouth-to-mouth or mouth-to-nose resuscitation. Use respiratory bag or oxygen resuscitation apparatus.
- Do not leave patient unattended.

In case of unconsciousness place patient stably in side position for transportation.

· **After skin contact:**

Immediately wash with water and soap and rinse thoroughly.

May be absorbed through the skin. Seek medical advice.

· **After eye contact:**

Check for and remove any contact lenses.

Rinse opened eye for several minutes under running water. Then consult a doctor.

· **After swallowing:**

Wash mouth out with water

Do not induce vomiting; call for medical help immediately.

If vomiting occurs spontaneously, keep head below hips to prevent aspiration.

· **Information for doctor:**

Contains formaldehyde and methanol.

Inhalation of an aerosol of this substance may cause lung oedema.

· **4.2 Most important symptoms and effects, both acute and delayed** No further relevant information available.

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

Stomach wash. Administration of 100 ml of a solution containing 2% ammonium carbonate and 20% urea.

SECTION 5: Firefighting measures

· **5.1 Extinguishing media**

· **Suitable extinguishing agents:**

CO₂, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

Use fire extinguishing methods suitable to surrounding conditions.

· **For safety reasons unsuitable extinguishing agents:** Water with full jet

· **5.2 Special hazards arising from the substance or mixture**

Combustible

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In case of fire, the following can be released:

Carbon monoxide and carbon dioxide

Chlorine compounds

Formaldehyde

Phosphorous oxides

In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion.

Vapours can travel to a distant source of ignition and flash back.

· **5.3 Advice for firefighters**

· **Protective equipment:**

Wear self-contained respiratory protective device.

Wear fully protective suit.

Do not inhale explosion gases or combustion gases.

· **Additional information**

Absorb gas/vapours with water spray.

Collect contaminated fire fighting water separately. It must not enter the sewage system.

Cool endangered receptacles with water spray.

SECTION 6: Accidental release measures

· **6.1 Personal precautions, protective equipment and emergency procedures**

Wear protective equipment. Keep unprotected persons away.

Ensure adequate ventilation

Keep ignition sources away - no smoking.

· **6.2 Environmental precautions:**

Do not allow to enter sewers/ surface or ground water.

Do not allow to penetrate the ground/soil.

Inform respective authorities in case of seepage into water course or sewage system.

· **6.3 Methods and material 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.

Ensure adequate ventilation.

· **6.4 Reference to other sections**

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

SECTION 7: Handling and storage

· **7.1 Precautions for safe handling**

Avoid direct contact (skin/eye contact, ingestion and/or inhalation of fume/mist/dust) with the product in the undiluted form.

Ensure good ventilation/exhaustion at the workplace.

Open and handle receptacle with care.

Store in cool, dry place in tightly closed receptacles.

Prevent formation of aerosols.

The product must only be handled by authorised, trained and experienced professionals under strictly controlled conditions.

Conduct maintenance and other work on or in storage/reactor/mixing vessels or closed spaces ONLY under strict Permit to Work conditions.

Welding and other hot work operations in the work area must only be permitted under supervision.

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Safety showers and eye wash facilities should be available at the work area.

- **Information about fire - and explosion protection:**

Protect from heat.

Keep respiratory protective device available.

Protect against electrostatic charges.

Keep ignition sources away - Do not smoke.

Flammable gas-air mixtures may form in empty receptacles.

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

- **Storage:**

- **Requirements to be met by storerooms and receptacles:**

Store in a cool location.

Prevent any seepage into the ground.

Store only in the original receptacle.

- **Information about storage in one common storage facility:**

Store away from foodstuffs.

Store away from oxidising agents.

- **Further information about storage conditions:**

Store in cool, dry conditions in well sealed receptacles.

Store under lock and key and with access restricted to technical experts or their assistants only.

Store in a bunded area.

Protect from heat and direct sunlight.

- **Storage class:** 6.1 C

- **7.3 Specific end use(s)** No further relevant information available.

SECTION 8: Exposure controls/personal protection

- **8.1 Control parameters**

- **Ingredients with limit values that require monitoring at the workplace:**

CAS: 111-46-6 Diethylene glycol

WEL	Long-term value: 101 mg/m ³ , 23 ppm
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CAS: 7647-14-5 Sodium chloride

RESPIRABLE DUST	Long-term value: 4 mg/m ³
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TOTAL INHALABLE DUST	Long-term value: 10 mg/m ³
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CAS: 50-00-0 Formaldehyde

WEL	Short-term value: 2.5 mg/m ³ , 2 ppm Long-term value: 2.5 mg/m ³ , 2 ppm Carc
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CAS: 67-56-1 Methanol

WEL	Short-term value: 333 mg/m ³ , 250 ppm Long-term value: 266 mg/m ³ , 200 ppm Sk
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- **DNELs**

CAS: 111-46-6 Diethylene glycol

Dermal	Long-term systemic effects	21 mg/kg bw/day (general population) 43 mg/kg bw/day (worker)
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Inhalative	Long-term systemic effects	12 mg/m ³ (general population) 44 mg/m ³ (worker)
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	Long-term local effects	12 mg/m ³ (general population) 60 mg/m ³ (worker)
CAS: 7647-14-5 Sodium chloride		
Oral	Long-term systemic effects	126.65 mg/kg bw/day (general population)
	Short-term systemic effects	126.65 mg/kg bw/day (general population)
Dermal	Long-term systemic effects	126.65 mg/kg bw/day (general population) 295.52 mg/kg bw/day (worker)
	Short-term systemic effects	126.65 mg/kg bw/day (general population) 295.52 mg/kg bw/day (worker)
Inhalative	Long-term systemic effects	443.28 mg/m ³ (general population) 2,068.62 mg/m ³ (worker)
	Short-term systemic effects	443.28 mg/m ³ (general population) 2,068.62 mg/m ³ (worker)
CAS: 50-00-0 Formaldehyde		
Oral	Long-term systemic effects	4.1 mg/kg bw/day (general population)
Dermal	Long-term systemic effects	102 mg/kg bw/day (general population) 240 mg/kg bw/day (worker)
	Long-term systemic effects	12 µg/kg bw/day (general population)
Inhalative	Long-term local effects	37 µg/kg bw/day (worker)
	Long-term systemic effects	3.2 mg/m ³ (general population) 9 mg/m ³ (worker)
	Long-term local effects	100 µg/m ³ (general population) 375 µg/m ³ (worker)
	Short-term local effects	750 µg/m ³ (worker)
CAS: 67-56-1 Methanol		
Oral	Long-term systemic effects	4 mg/kg bw/day (general population)
	Short-term systemic effects	4 mg/kg bw/day (general population)
Dermal	Long-term systemic effects	4 mg/kg bw/day (general population) 20 mg/kg bw/day (worker)
	Short-term systemic effects	4 mg/kg bw/day (general population) 20 mg/kg bw/day (worker)
Inhalative	Long-term systemic effects	26 mg/m ³ (general population) 130 mg/m ³ (worker)
	Short-term systemic effects	26 mg/m ³ (general population) 130 mg/m ³ (worker)
	Long-term local effects	26 mg/m ³ (general population) 130 mg/m ³ (worker)
	Short-term local effects	26 mg/m ³ (general population) 130 mg/m ³ (worker)

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· PNECs	
CAS: 7647-14-5 Sodium chloride	
Freshwater	5 mg/L
Sewage Treatment Plant	500 mg/L
Soil	4.86 mg/kg

· **Additional information:** The lists valid during the making were used as basis.

· **8.2 Exposure controls**

· **Appropriate engineering controls**

Provide general and/or local exhaust ventilation to control airborne levels below the exposure guidelines.

· **Individual protection measures, such as personal protective equipment**

· **General protective and hygienic measures:**

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing

Wash hands before breaks and at the end of work.

Store protective clothing separately.

Do not inhale gases / fumes / aerosols.

Avoid contact with the eyes and skin.

Do not eat, drink, smoke or sniff while working.

Pregnant women should strictly avoid inhalation or skin contact.

A safe system of work must be formulated and followed to ensure safe working with this product. Relevant workers must receive suitable and sufficient training and supervision.

Ensure that eyewash stations and safety showers are close to the workstation location.

Take note of assigned Workplace Exposure Limits.

Depending on the degree of exposure, periodic medical examination is suggested.

· **Respiratory protection:**

Use suitable respiratory protective device in case of insufficient ventilation.

Filter A for organic vapours

· **Hand protection**



Protective gloves.

Use gloves tested and approved under appropriate government standards such as NIOSH (US) or EN374 (EU).

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

· **Material of gloves**

Nitrile rubber, NBR

Butyl rubber, BR

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

· **Penetration time of glove material**

Break-through time: > 480 minutes

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

· **Eye/face protection**



Safety glasses with side-shields conforming to EN166.

Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

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· Body protection:


Impervious protective clothing

Do not get on skin or clothing. Wear clothing and footwear that cannot be penetrated by the product. Suitable protective equipment may include: Chemical resistant boots, Chemical resistant apron, Full chemical protective suit with a hood, Chemical protective suit consisting of a jacket and trousers. The jacket should be buttoned up to the neck, sleeves sealed at the gloves, and trouser legs worn outside the boots. These precautions are required to prevent the clothing from accidentally trapping product against the skin.

· **Environmental exposure controls** Do not allow to enter drains, sewers or watercourses.

· **Risk management measures**

The operators shall be instructed adequately.

The workplace shall be inspected regularly by competent personnel e.g. the safety representative.

SECTION 9: Physical and chemical properties

· **9.1 Information on basic physical and chemical properties**

· **General Information**

· Physical state	Liquid
· Colour:	Colourless - pale yellow
· Odour:	Characteristic
· Melting point/freezing point:	Undetermined.
· Boiling point or initial boiling point and boiling range	~ 100 °C (CAS: 7732-18-5 Water)
· Lower and upper explosion limit	
· Lower:	0.7 Vol % (CAS: 111-46-6 Diethylene glycol)
· Upper:	22 Vol % (CAS: 111-46-6 Diethylene glycol)
· Flash point:	> 60 °C
· Auto-ignition temperature:	225 °C (CAS: 111-46-6 Diethylene glycol)
· pH at 20 °C	3 – 4
· Viscosity:	
· Kinematic viscosity	Not determined.
· Dynamic:	Not determined.
· Solubility	
· water:	Fully miscible.
· Partition coefficient n-octanol/water (log value)	0.35 log POW
· Vapour pressure at 20 °C:	23 hPa (CAS: 7732-18-5 Water)
· Density and/or relative density	
· Density at 20 °C:	~ 1.15 g/cm ³

· **9.2 Other information**

· **Appearance:**

· **Form:** Liquid

· **Important information on protection of health and environment, and on safety.**

· **Ignition temperature:**

Product is not self-igniting.

· **Explosive properties:**

Product is not explosive. However, formation of explosive air/vapour mixtures are possible.

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Information with regard to physical hazard classes	Not applicable
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SECTION 10: Stability and reactivity

- **10.1 Reactivity** No further relevant information available.
- **10.2 Chemical stability**
- **Thermal decomposition / conditions to be avoided:**
No decomposition if used and stored according to specifications.
- **10.3 Possibility of hazardous reactions**
Reacts violently with oxidising agents.
Exothermic reaction with acids.
Exothermic reaction with alkalis
- **10.4 Conditions to avoid** Heat and static discharge.
- **10.5 Incompatible materials:**
Substances specifically listed in section 10.3 as incompatible.
Strong acids.
Strong bases.
Strong oxidising agents.
- **10.6 Hazardous decomposition products:**
Carbon monoxide and carbon dioxide
Chlorine compounds
Formaldehyde
Phosphorus oxides (e.g. P₂O₅)

SECTION 11: Toxicological information

- **11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008**
- **Acute toxicity**
Harmful if inhaled.

LD/LC50 values relevant for classification:
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ATE (Acute Toxicity Estimates)		
Oral	LD50	2,510.7 mg/kg
Dermal	LD50	4,741.6 mg/kg
Inhalative	LC50/4 h	11.315 mg/l

Oral	LD50	2,510.7 mg/kg
Dermal	LD50	4,741.6 mg/kg
Inhalative	LC50/4 h	11.315 mg/l

CAS: 111-46-6 Diethylene glycol		
Oral	LD50	1,120 mg/kg (human) Laug, E.P. et al; 1939
		19,600 mg/kg (rat)
Dermal	LD50	13,300 mg/kg (rabbit)

Oral	LD50	1,120 mg/kg (human) Laug, E.P. et al; 1939
		19,600 mg/kg (rat)
Dermal	LD50	13,300 mg/kg (rabbit)

CAS: 7647-14-5 Sodium chloride		
Oral	LD50	> 2,000 mg/kg (rat)

Oral	LD50	> 2,000 mg/kg (rat)
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CAS: 50-00-0 Formaldehyde		
Oral	LD50	640 mg/kg (rat)
Inhalative	LC50/4 h	0.588 mg/l (rat)

Oral	LD50	640 mg/kg (rat)
Inhalative	LC50/4 h	0.588 mg/l (rat)

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- **Primary irritant effect:**
- **Skin corrosion/irritation** Based on available data, the classification criteria are not met.
- **Serious eye damage/irritation** Based on available data, the classification criteria are not met.
- **Respiratory or skin sensitisation**
May cause an allergic skin reaction.
- **Germ cell mutagenicity**
Suspected of causing genetic defects.
- **Carcinogenicity**
May cause cancer.
- **Reproductive toxicity** Based on available data, the classification criteria are not met.
- **STOT-single exposure** Based on available data, the classification criteria are not met.
- **STOT-repeated exposure** Based on available data, the classification criteria are not met.
- **Aspiration hazard** Based on available data, the classification criteria are not met.
- **Subacute to chronic toxicity:**
Prolonged or repeated skin contact may irritate and cause dermatitis.
Repeated or prolonged inhalation exposure may cause asthma.
- **Additional toxicological information:**
ROUTES OF EXPOSURE: The component substances can variously be absorbed into the body by inhalation, through the skin and by ingestion.
May cause sensitisation in susceptible persons.
- **11.2 Information on other hazards**

· Endocrine disrupting properties
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None of the ingredients are listed.

SECTION 12: Ecological information

· 12.1 Toxicity

· Aquatic toxicity:

CAS: 7647-14-5 Sodium chloride

EC50 (96 h) > 4,000 mg/l (Bacteria)
5,840 mg/l (fsh)

CAS: 50-00-0 Formaldehyde

EC50 (96 h) 14.7 mg/l (Bacteria)

- **12.2 Persistence and degradability** biodegradable
- **12.3 Bioaccumulative potential** Product is not expected to bioaccumulate.
- **12.4 Mobility in soil** No further relevant information available.
- **12.5 Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **12.6 Endocrine disrupting properties** The product does not contain substances with endocrine disrupting properties.
- **12.7 Other adverse effects**
- **Additional ecological information:**
- **General notes:**
Must not reach sewage water or drainage ditch undiluted or unneutralised.
Water hazard class 3 (German Regulation) (Self-assessment): extremely hazardous for water
Do not allow product to reach ground water, water course or sewage system, even in small quantities.
Danger to drinking water if even extremely small quantities leak into the ground.

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SECTION 13: Disposal considerations

· **13.1 Waste treatment methods**

· **Recommendation**

Recommended Hierarchy of Controls:

- Minimise waste;
- Reuse if not contaminated;
- Recycle, if possible; or
- Safe disposal (if all else fails).

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

Contact waste processors for recycling information.

Used, degraded or contaminated product may be classified as hazardous waste. Anyone classifying hazardous waste and determining its fate must be qualified in accordance with state and international legislation.

Do not mix with other waste streams.

· **UK List of Waste**

16 00 00	WASTES NOT OTHERWISE SPECIFIED IN THE LIST
16 05 00	gases in pressure containers and discarded chemicals
16 05 06*	laboratory chemicals, consisting of or containing hazardous substances, including mixtures of laboratory chemicals

· **Uncleaned packaging:**

· **Recommendation:**

Empty contaminated packagings thoroughly. They may be recycled after thorough and proper cleaning.

Disposal must be made according to official regulations.

Containers, even those that are “empty,” may contain residues that can develop flammable vapours upon heating. Do not cut, drill, grind, weld, or perform similar operations on or near empty containers.

Do not mix with other waste streams.

· **Recommended cleansing agents:** Large quantities of water

SECTION 14: Transport information

· **14.1 UN number or ID number**

· **ADR, IMDG, IATA** Not applicable

· **14.2 UN proper shipping name**

· **ADR, IMDG, IATA** Not applicable

· **14.3 Transport hazard class(es)**

· **ADR, ADN, IMDG, IATA**
 · **Class** Not applicable

· **14.4 Packing group**

· **ADR, IMDG, IATA** Not applicable

· **14.5 Environmental hazards:**

· **Marine pollutant:** No

· **14.6 Special precautions for user** Not applicable.

· **14.7 Maritime transport in bulk according to IMO instruments** Not applicable.

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· UN "Model Regulation":	Not applicable
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SECTION 15: Regulatory information

- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **Poisons Act**

· Regulated explosives precursors
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None of the ingredients are listed.

· Regulated poisons

None of the ingredients are listed.

· Reportable explosives precursors

None of the ingredients are listed.

· Reportable poisons

CAS: 50-00-0 | Formaldehyde

5%

- **Control Of Major Accident Hazards Regulations 2015 (COMAH)**
- **Named dangerous substances - ANNEX I** None of the ingredients are listed.
- **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

This Safety Data Sheet is in compliance with Regulation (EC) No 1907/2006, Article 31 as amended by Regulation (EU) 2020/878.

- **Relevant phrases**

H225 Highly flammable liquid and vapour.

H301 Toxic if swallowed.

H302 Harmful if swallowed.

H311 Toxic in contact with skin.

H314 Causes severe skin burns and eye damage.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

H330 Fatal if inhaled.

H331 Toxic if inhaled.

H335 May cause respiratory irritation.

H341 Suspected of causing genetic defects.

H350 May cause cancer.

H370 Causes damage to organs.

H371 May cause damage to organs.

- **Training hints**

This product should only be handled by workers who have received sufficient training in the safe handling and use of chemical products.

- **Department issuing SDS:** Product safety department.

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Safety Data Sheet

according to UK REACH (SI 2020/1577) as amended

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Trade name: Red Blood Cell Lysis buffer, RBC, 10X

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· **Abbreviations and acronyms:**

UK- REACH: The UK REACH etc. (Amendment etc.) (EU Exit) Regulations 2019 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals
GB- CLP: Retained GB CLP Regulation (EU) No. 1272/2008 as amended for Great Britain on the Classification, Labelling and Packaging of Chemicals.
ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)
IMDG: International Maritime Code for Dangerous Goods
IATA: International Air Transport Association
GHS: Globally Harmonised System of Classification and Labelling of Chemicals
EINECS: European Inventory of Existing Commercial Chemical Substances
ELINCS: European List of Notified Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)
DNEL: Derived No-Effect Level (UK REACH)
PNEC: Predicted No-Effect Concentration (UK REACH)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative
ATE: Acute toxicity estimate values
Flam. Liq. 2: Flammable liquids – Category 2
Acute Tox. 3: Acute toxicity – Category 3
Acute Tox. 4: Acute toxicity – Category 4
Acute Tox. 2: Acute toxicity – Category 2
Skin Corr. 1B: Skin corrosion/irritation – Category 1B
Skin Sens. 1: Skin sensitisation – Category 1
Skin Sens. 1A: Skin sensitisation – Category 1A
Muta. 2: Germ cell mutagenicity – Category 2
Carc. 1B: Carcinogenicity – Category 1B
STOT SE 1: Specific target organ toxicity (single exposure) – Category 1

— GB —