

according to Regulation UK SI 2019/758 and UK SI 2020/1577 as amended

Revision Date 13-Oct-2023 Revision Number 4

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

#### 1.1. Product identifier

Product Description: <u>Low Scale DNA Ladder, 100bp</u>

Cat No. : BP2581-4; BP2581-200

**Synonyms** Lo DNA Marker.

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

Recommended Use Laboratory chemicals.
Uses advised against No Information available

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

Company

UK entity/business name

Fisher Scientific UK Bishop Meadow Road,

Loughborough, Leicestershire LE11 5RG,

United Kingdom

EU entity/business name

Thermo Fisher Scientific

Janssen Pharmaceuticalaan 3a, 2440 Geel,

Belgium

E-mail address begel.sdsdesk@thermofisher.com

1.4. Emergency telephone number

For information **US** call: 001-800-227-6701 / **Europe** call: +32 14 57 52 11 Emergency Number **US**:001-201-796-7100 / **Europe**: +32 14 57 52 99 **CHEMTREC** Tel. No. **US**:001-800-424-9300 / **Europe**:001-703-527-3887

## **SECTION 2: HAZARDS IDENTIFICATION**

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

#### CLP Classification - According to GB-CLP Regulations UK SI 2019/720 and UK SI 2020/1567

## **Physical hazards**

Based on available data, the classification criteria are not met

#### **Health hazards**

Based on available data, the classification criteria are not met

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#### **Environmental hazards**

Based on available data, the classification criteria are not met

Full text of Hazard Statements: see section 16

#### 2.2. Label elements

None required

#### 2.3. Other hazards

This product does not contain any known or suspected endocrine disruptors

## **SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS**

Component	CAS No	EC No	Weight %	CLP Classification - According to GB-CLP Regulations UK SI 2019/720 and UK SI 2020/1567
Tris (hydroxymethyl) aminomethane	77-86-1	201-064-4	< 1.0	-
Sodium azide	26628-22-8	247-852-1	0.02	Acute Tox. 2 (H300) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410) (EUH032)
Ethylenediamine tetraacetic acid (EDTA)	60-00-4	EEC No. 200-449-4	< 1.0	Eye Irrit. 2 (H319) Acute Tox. 4 (H332) STOT RE 2 (H373)
Glycerin	56-81-5	200-289-5	6.0	-
Water	7732-18-5	231-791-2	90.9+	-
Bromophenyl blue	NA		0.02	-
Lo DNA Marker, premixed with loading dye, plasmid DNA	NA		< 1.0	-
Xylene cyanol FE	NA		0.02	-

	Component	Specific concentration limits (SCL's)	M-Factor	Component notes
Γ	Sodium azide	-	1	-

Full text of Hazard Statements: see section 16

## **SECTION 4: FIRST AID MEASURES**

## 4.1. Description of first aid measures

**Eye Contact** Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get

medical attention.

**Skin Contact** Wash off immediately with plenty of water for at least 15 minutes. Get medical attention

immediately if symptoms occur.

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**Ingestion** Do NOT induce vomiting. Get medical attention.

**Inhalation** Remove to fresh air. If breathing is difficult, give oxygen. Get medical attention immediately

if symptoms occur.

Self-Protection of the First Aider Ensure that medical personnel are aware of the material(s) involved, take precautions to

protect themselves and prevent spread of contamination.

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

No information available.

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

Notes to Physician Treat symptomatically.

## **SECTION 5: FIREFIGHTING MEASURES**

## 5.1. Extinguishing media

#### **Suitable Extinguishing Media**

Substance is nonflammable; use agent most appropriate to extinguish surrounding fire.

#### Extinguishing media which must not be used for safety reasons

No information available.

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

Thermal decomposition can lead to release of irritating gases and vapors.

#### **Hazardous Combustion Products**

No information available.

#### 5.3. Advice for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

## **SECTION 6: ACCIDENTAL RELEASE MEASURES**

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

Ensure adequate ventilation. Use personal protective equipment as required.

#### 6.2. Environmental precautions

Should not be released into the environment. See Section 12 for additional Ecological Information.

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

Soak up with inert absorbent material. Keep in suitable, closed containers for disposal.

## 6.4. Reference to other sections

Refer to protective measures listed in Sections 8 and 13.

## **SECTION 7: HANDLING AND STORAGE**

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## 7.1. Precautions for safe handling

Wear personal protective equipment/face protection. Ensure adequate ventilation. Avoid contact with skin, eyes or clothing. Avoid ingestion and inhalation.

#### **Hygiene Measures**

Handle in accordance with good industrial hygiene and safety practice. Keep away from food, drink and animal feeding stuffs. Do not eat, drink or smoke when using this product. Remove and wash contaminated clothing and gloves, including the inside, before re-use. Wash hands before breaks and after work.

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

Keep container tightly closed in a dry and well-ventilated place. Store in freezer.

**Technical Rules for Hazardous Substances (TRGS) 510** Storage Class (LGK) (Germany)

Class 10

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

Use in laboratories

## **SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

#### 8.1. Control parameters

#### **Exposure limits**

List source(s): EU - Commission Directive (EU) 2019/1831 of 24 October 2019 establishing a fifth list of indicative occupational exposure limit values pursuant to Council Directive 98/24/EC and amending Commission Directive 2000/39/EC

Component	The United Kingdom	European Union	Ireland
Sodium azide	Skin	Skin	TWA: 0.1 mg/m <sup>3</sup> 8 hr.
	TWA 0.1 mg/m <sup>3</sup>	TWA 0.1 mg/m <sup>3</sup>	STEL: 0.3 mg/m <sup>3</sup> 15 min
	STEL 0.3 mg/m <sup>3</sup>	STEL 0.3 mg/m <sup>3</sup>	Skin
Glycerin	TWA: 10 mg/m <sup>3</sup> 8 hr (mist		TWA: 10 mg/m <sup>3</sup> 8 hr. (mist)
·	only)		

#### **Biological limit values**

This product, as supplied, does not contain any hazardous materials with biological limits established by the region specific regulatory bodies

## Derived No Effect Level (DNEL) / Derived Minimum Effect Level (DMEL)

See table for values

Component	Acute effects local	Acute effects	Chronic effects local	Chronic effects
	(Dermal)	systemic (Dermal)	(Dermal)	systemic (Dermal)
Tris (hydroxymethyl) aminomethane 77-86-1 ( < 1.0 )				DNEL = 166.7mg/kg bw/day
Sodium azide 26628-22-8 ( 0.02 )				DNEL = 46.7µg/kg bw/day

Component	Acute effects local	Acute effects	Chronic effects local	Chronic effects
	(Inhalation)	systemic (Inhalation)	(Inhalation)	systemic (Inhalation)

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Tris (hydroxymethyl)
 aminomethane
 77-86-1 ( < 1.0 )

 Sodium azide
 26628-22-8 ( 0.02 )

Ethylenediamine tetraacetic
 acid (EDTA)
 60-00-4 ( < 1.0 )

 Glycerin
 56-81-5 ( 6.0 )

DNEL = 117.5mg/m³

DNEL = 0.164mg/m³

DNEL = 1.5mg/m³

DNEL = 1.5mg/m³

DNEL = 56mg/m³

#### **Predicted No Effect Concentration (PNEC)**

See values below.

Component	Fresh water	Fresh water	Water Intermittent	Microorganisms in	Soil (Agriculture)
		sediment		sewage treatment	
Tris (hydroxymethyl) aminomethane 77-86-1 ( < 1.0 )				PNEC = 300mg/L	
Sodium azide 26628-22-8 ( 0.02 )	PNEC = 0.35μg/L	PNEC = 16.7µg/kg sediment dw	PNEC = 3.5µg/L	PNEC = 30µg/L	
Ethylenediamine tetraacetic acid (EDTA) 60-00-4 ( < 1.0 )	PNEC = 2.2mg/L		PNEC = 1.2mg/L	PNEC = 43mg/L	PNEC = 0.72mg/kg soil dw
Glycerin 56-81-5 ( 6.0 )	PNEC = 0.885mg/L	PNEC = 3.3mg/kg sediment dw	PNEC = 8.85mg/L	PNEC = 1000mg/L	PNEC = 0.141mg/kg soil dw

Component	Marine water	Marine water sediment	Marine water intermittent	Food chain	Air
Sodium azide	PNEC = 15ng/L	$PNEC = 0.72 \mu g/kg$	PNEC = 150ng/L		
26628-22-8 ( 0.02 )	_	sediment dw	-		
Ethylenediamine	PNEC = 0.22mg/L				
tetraacetic acid (EDTA)					
60-00-4 ( < 1.0 )					
Glycerin	PNEC =	PNEC = 0.33mg/kg			
56-81-5 ( 6.0 )	0.0885mg/L	sediment dw			

## 8.2. Exposure controls

## **Engineering Measures**

Ensure that eyewash stations and safety showers are close to the workstation location. Ensure adequate ventilation, especially in confined areas.

Wherever possible, engineering control measures such as the isolation or enclosure of the process, the introduction of process or equipment changes to minimise release or contact, and the use of properly designed ventilation systems, should be adopted to control hazardous materials at source

## Personal protective equipment

**Eye Protection** Wear safety glasses with side shields (or goggles) (European standard - EN 166)

Hand Protection Protective gloves

Glove material	Breakthrough time	Glove thickness	EU standard	Glove comments
Disposable gloves	See manufacturers	-	EN 374	(minimum requirement)
	recommendations			

**Skin and body protection** Wear appropriate protective gloves and clothing to prevent skin exposure.

Inspect gloves before use.

Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. (Refer to manufacturer/supplier for information)

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Ensure gloves are suitable for the task: Chemical compatability, Dexterity, Operational conditions, User susceptibility, e.g. sensitisation effects, also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion.

Remove gloves with care avoiding skin contamination.

Respiratory Protection Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard

EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

To protect the wearer, respiratory protective equipment must be the correct fit and be used

and maintained properly

Large scale/emergency use In case of insufficient ventilation, wear suitable respiratory equipment

Small scale/Laboratory use Use a NIOSH/MSHA or European Standard EN 149:2001 approved respirator if exposure

limits are exceeded or if irritation or other symptoms are experienced.

When RPE is used a face piece Fit Test should be conducted

**Environmental exposure controls** No information available.

#### **SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

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

Physical State Liquid

Appearance Blue

No information available Odor **Odor Threshold** No data available Melting Point/Range 0 °C / 32 °F **Softening Point** No data available **Boiling Point/Range** 100 °C / 212 °F Flammability (liquid) No data available Flammability (solid,gas) No information available **Explosion Limits** No data available

Flash Point Not applicable Method - No information available

Autoignition Temperature
Decomposition Temperature
pH
Viscosity
Water Solubility
Solubility in other solvents
No data available
No data available
No data available
No information available
No information available

Partition Coefficient (n-octanol/water)

Component log Pow Glycerin -1.75

Vapor Pressure No information available

Density / Specific Gravity 1.0

Bulk DensityNo data availableVapor DensityNo data available(Air = 1.0)

Particle characteristics Not applicable (liquid)

9.2. Other information

**Evaporation Rate** 1 (Water = 1.0)

## **SECTION 10: STABILITY AND REACTIVITY**

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10.1. Reactivity

None known, based on information available

10.2. Chemical stability

Stable under recommended storage conditions.

10.3. Possibility of hazardous reactions

Hazardous Polymerization Hazardous polymerization does not occur.

Hazardous Reactions None under normal processing.

10.4. Conditions to avoid

No information available.

10.5. Incompatible materials

No information available.

10.6. Hazardous decomposition products

No information available.

## **SECTION 11: TOXICOLOGICAL INFORMATION**

#### 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

#### **Product Information**

(a) acute toxicity;

Oral No data available
Dermal No data available
Inhalation No data available

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
Tris (hydroxymethyl) aminomethane	LD50 = 5900 mg/kg (Rat)	LD50 > 5000 mg/kg (Rat)	-
Sodium azide	LD50 = 27 mg/kg ( Rat )	-	LC50 0.054 - 0.52 mg/L (Rat) 4 h
Ethylenediamine tetraacetic acid (EDTA)	4500 mg/kg (Rat) >2000 mg/kg (Rat)	-	1 mg/l (rat)
Glycerin	12600 mg/kg ( Rat )	> 10 g/kg(Rabbit)	> 2.75 mg/L/4h ( Rat )(mist)
Water	-	-	-

(b) skin corrosion/irritation; No data available

(c) serious eye damage/irritation; No data available

(d) respiratory or skin sensitization;

Respiratory No data available Skin No data available

(e) germ cell mutagenicity; No data available

(f) carcinogenicity; No data available

There are no known carcinogenic chemicals in this product

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(g) reproductive toxicity; No data available

(h) STOT-single exposure; No data available

(i) STOT-repeated exposure; No data available

Target Organs No information available.

(j) aspiration hazard; No data available

Other Adverse Effects See actual entry in RTECS for complete information

Symptoms / effects,both acute and No information available.

delayed

11.2. Information on other hazards

**Endocrine Disrupting Properties** Assess endocrine disrupting properties for human health. This product does not contain any

known or suspected endocrine disruptors.

## **SECTION 12: ECOLOGICAL INFORMATION**

12.1. Toxicity

**Ecotoxicity effects** Do not empty into drains.

Component	Freshwater Fish	Water Flea	Freshwater Algae
Sodium azide	LC50: = 0.7 mg/L, 96h (Lepomis macrochirus) LC50: = 0.8 mg/L, 96h (Oncorhynchus mykiss) LC50: = 5.46 mg/L, 96h flow-through (Pimephales promelas)		
Ethylenediamine tetraacetic acid (EDTA)	LC50: 34 - 62 mg/L, 96h static (Lepomis macrochirus) LC50: 44.2 - 76.5 mg/L, 96h static (Pimephales promelas)	EC50: = 113 mg/L, 48h Static (Daphnia magna)	EC50: = 1.01 mg/L, 72h (Desmodesmus subspicatus)
Glycerin	LC50: 51 - 57 mL/L, 96h static (Oncorhynchus mykiss)		

Component	Microtox	M-Factor
Sodium azide		1

## 12.2. Persistence and degradability No information available

## 12.3. Bioaccumulative potential No information available

Component	log Pow	Bioconcentration factor (BCF)
Glycerin	-1.75	No data available

12.4. Mobility in soil No information available .

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12.5. Results of PBT and vPvB

assessment

No data available for assessment.

12.6. Endocrine disrupting

properties

Endocrine Disruptor Information This product does not contain any known or suspected endocrine disruptors

12.7. Other adverse effects

Persistent Organic Pollutant Ozone Depletion Potential This product does not contain any known or suspected substance This product does not contain any known or suspected substance

## **SECTION 13: DISPOSAL CONSIDERATIONS**

#### 13.1. Waste treatment methods

Waste from Residues/Unused

**Products** 

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Consult local, regional, and national hazardous waste regulations to

ensure complete and accurate classification.

Contaminated Packaging Empty remaining contents. Dispose of in accordance with local regulations. Do not re-use

empty containers.

European Waste Catalogue (EWC) According to the European Waste Catalog, Waste Codes are not product specific, but

application specific.

Other Information Waste codes should be assigned by the user based on the application for which the product

was used.

## **SECTION 14: TRANSPORT INFORMATION**

IMDG/IMO Not regulated

14.1. UN number

14.2. UN proper shipping name

14.3. Transport hazard class(es)

14.4. Packing group

ADR Not regulated

14.1. UN number

14.2. UN proper shipping name

14.3. Transport hazard class(es)

14.4. Packing group

IATA Not regulated

14.1. UN number

14.2. UN proper shipping name

14.3. Transport hazard class(es)

14.4. Packing group

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14.5. Environmental hazards No hazards identified

**14.6. Special precautions for user** No special precautions required.

14.7. Maritime transport in bulk according to IMO instruments

Not applicable, packaged goods

## **SECTION 15: REGULATORY INFORMATION**

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

## **International Inventories**

Europe (EINECS/ELINCS/NLP), China (IECSC), Taiwan (TCSI), Korea (KECL), Japan (ENCS), Japan (ISHL), Canada (DSL/NDSL), Australia (AICS), New Zealand (NZIoC), Philippines (PICCS). US EPA (TSCA) - Toxic Substances Control Act, (40 CFR Part 710)

Component	CAS No	EINECS	ELINCS	NLP	IECSC	TCSI	KECL	ENCS	ISHL
Tris (hydroxymethyl) aminomethane	77-86-1	201-064-4	-	-	Х	Х	KE-01403	Х	Х
Sodium azide	26628-22-8	247-852-1	-	-	Х	Χ	KE-31357	Х	Х
Ethylenediamine tetraacetic acid (EDTA)	60-00-4	200-449-4	-	-	Х	Х	KE-13648	Х	Х
Glycerin	56-81-5	200-289-5	-	-	Х	X	KE-29297	X	Х
Water	7732-18-5	231-791-2	-	-	Х	Χ	KE-35400	X	-
Bromophenyl blue	NA	-	-	-	-	-	-	-	-
Lo DNA Marker, premixed with loading dye, plasmid DNA	NA	-	1	1	-	ı	-	-	ı
Xylene cyanol FE	NA	-	-	-	-	-	-	-	-

Component	CAS No	TSCA	TSCA Inventory notification - Active-Inactive	DSL	NDSL	AICS	NZIoC	PICCS
Tris (hydroxymethyl) aminomethane	77-86-1	Х	ACTIVE	X	-	Х	Х	Х
Sodium azide	26628-22-8	Х	ACTIVE	Х	-	Х	Х	Х
Ethylenediamine tetraacetic acid (EDTA)	60-00-4	Х	ACTIVE	X	-	Х	Х	Х
Glycerin	56-81-5	Х	ACTIVE	Х	-	Х	Х	Х
Water	7732-18-5	Х	ACTIVE	Х	-	Х	Х	Х
Bromophenyl blue	NA	-	-	-	-	-	-	-
Lo DNA Marker, premixed with loading dye, plasmid DNA	NA	-	-	-	-	-	-	-
Xylene cyanol FE	NA	-	=	-	-	-	-	-

**Legend:** X - Listed '-' - Not Listed **KECL** - NIER number or KE number (http://ncis.nier.go.kr/en/main.do)

## Authorisation/Restrictions according to EU REACH

Component	CAS No	REACH (1907/2006) - Annex XIV - Substances Subject to Authorization	REACH (1907/2006) - Annex XVII - Restrictions on Certain Dangerous Substances	REACH Regulation (EC 1907/2006) article 59 - Candidate List of Substances of Very High Concern (SVHC)
Tris (hydroxymethyl) aminomethane	77-86-1	-	-	-
Sodium azide	26628-22-8	-	-	-
Ethylenediamine tetraacetic acid (EDTA)	60-00-4	-	Use restricted. See item 75. (see link for restriction details)	-
Glycerin	56-81-5	-	-	-
Water	7732-18-5	-	-	-
Bromophenyl blue	NA	-	-	-
Lo DNA Marker, premixed with	NA	-	-	-

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loading dye, plasmid DNA				
Xylene cyanol FE	NA	-	-	-

## **REACH links**

https://echa.europa.eu/substances-restricted-under-reach

## Seveso III Directive (2012/18/EC)

Component	CAS No	Seveso III Directive (2012/18/EC) - Qualifying Quantities for Major Accident Notification	Seveso III Directive (2012/18/EC) - Qualifying Quantities for Safety Report Requirements
Tris (hydroxymethyl) aminomethane	77-86-1	Not applicable	Not applicable
Sodium azide	26628-22-8	Not applicable	Not applicable
Ethylenediamine tetraacetic acid (EDTA)	60-00-4	Not applicable	Not applicable
Glycerin	56-81-5	Not applicable	Not applicable
Water	7732-18-5	Not applicable	Not applicable
Bromophenyl blue	NA	Not applicable	Not applicable
Lo DNA Marker, premixed with loading dye, plasmid DNA	NA	Not applicable	Not applicable
Xylene cyanol FE	NA	Not applicable	Not applicable

Regulation (EC) No 649/2012 of the European Parliament and of the Council of 4 July 2012 concerning the export and import of dangerous chemicals

Not applicable

Contains component(s) that meet a 'definition' of per & poly fluoroalkyl substance (PFAS)? Not applicable

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work .

Take note of Directive 2000/39/EC establishing a first list of indicative occupational exposure limit values

## **National Regulations**

UK - Take note of Control of Substances Hazardous to Health Regulations (COSHH) 2002 and 2005 Amendment

## **WGK Classification**

Water endangering class = 1 (self classification)

Component	Germany - Water Classification (AwSV)	Germany - TA-Luft Class
Tris (hydroxymethyl)	WGK1	
aminomethane		
Sodium azide	WGK2	
Ethylenediamine tetraacetic acid	WGK2	
(EDTA)		
Glycerin	WGK1	

ſ	Component	Switzerland - Ordinance on the	Switzerland - Ordinance on	Switzerland - Ordinance of the	
١	•	Reduction of Risk from	Incentive Taxes on Volatile	Rotterdam Convention on the	
١		handling of hazardous	Organic Compounds (OVOC)	Prior Informed Consent	
١		substances preparation (SR		Procedure	
		814.81)			

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Ethylenediamine tetraacetic acid (EDTA)	Prohibited and Restricted	
60-00-4 ( < 1.0 )	Substances	

### 15.2. Chemical safety assessment

A Chemical Safety Assessment/Report (CSA/CSR) has not been conducted

## **SECTION 16: OTHER INFORMATION**

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

#### Legend

**CAS** - Chemical Abstracts Service

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

EINECS/ELINCS - European Inventory of Existing Commercial Chemical DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances/EU List of Notified Chemical Substances PICCS - Philippines Inventory of Chemicals and Chemical Substances

Substances List **ENCS** - Japanese Existing and New Chemical Substances

IECSC - Chinese Inventory of Existing Chemical Substances **KECL** - Korean Existing and Evaluated Chemical Substances AICS - Australian Inventory of Chemical Substances NZIoC - New Zealand Inventory of Chemicals

WEL - Workplace Exposure Limit

**ACGIH** - American Conference of Governmental Industrial Hygienists

**DNEL** - Derived No Effect Level RPE - Respiratory Protective Equipment LC50 - Lethal Concentration 50% NOEC - No Observed Effect Concentration PBT - Persistent, Bioaccumulative, Toxic

TWA - Time Weighted Average IARC - International Agency for Research on Cancer

Predicted No Effect Concentration (PNEC)

LD50 - Lethal Dose 50%

EC50 - Effective Concentration 50% POW - Partition coefficient Octanol:Water vPvB - very Persistent, very Bioaccumulative

ADR - European Agreement Concerning the International Carriage of Dangerous Goods by Road

IMO/IMDG - International Maritime Organization/International Maritime

Dangerous Goods Code

**BCF** - Bioconcentration factor

ICAO/IATA - International Civil Aviation Organization/International Air Transport Association

MARPOL - International Convention for the Prevention of Pollution from

Ships

**OECD** - Organisation for Economic Co-operation and Development

ATE - Acute Toxicity Estimate VOC - (Volatile Organic Compound)

## Key literature references and sources for data

https://echa.europa.eu/information-on-chemicals

Suppliers safety data sheet, Chemadvisor - LOLI, Merck index, RTECS

#### **Training Advice**

Chemical hazard awareness training, incorporating labelling, Safety Data Sheets (SDS), Personal Protective Equipment (PPE) and hygiene.

**Revision Date** 13-Oct-2023 Not applicable. **Revision Summary** 

## This safety data sheet complies with Regulation UK SI 2019/758 and UK SI 2020/1577 as amended.

#### **Disclaimer**

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text

## **End of Safety Data Sheet**