

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

Creation Date 12-Jul-1999 Revision Date 09-Feb-2024 Revision Number 17

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

#### 1.1. Product identifier

Product Description: <u>Sodium dodecyl sulfate, 20% solution</u>

Cat No. : BP1311-1; BP1311-200 Sodium lauryl sulfate.

**EC No** 7732-18-5

#### 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**

ACRBP1311

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Skin Corrosion/Irritation Serious Eye Damage/Eye Irritation Category 2 (H315) Category 1 (H318)

#### **Environmental hazards**

Based on available data, the classification criteria are not met

Full text of Hazard Statements: see section 16

#### 2.2. Label elements



## Signal Word

#### **Danger**

#### **Hazard Statements**

H315 - Causes skin irritation

H318 - Causes serious eye damage

#### **Precautionary Statements**

P280 - Wear protective gloves/protective clothing/eye protection/face protection

P302 + P352 - IF ON SKIN: Wash with plenty of soap and water

P332 + P313 - If skin irritation occurs: Get medical advice/attention

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

P310 - Immediately call a POISON CENTER or doctor/physician

#### 2.3. Other hazards

This product does not contain any known or suspected endocrine disruptors

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

#### 3.2. Mixtures

Component	CAS No	EC No	Weight %	CLP Classification - According to GB-CLP Regulations UK SI 2019/720 and UK SI 2020/1567
Sodium lauryl sulfate	151-21-3	205-788-1	10-20	Acute Tox. 4 (H302) Skin Irrit. 2 (H315) Eye Dam. 1 (H318) Aquatic Chronic 3 (H412)
Water	7732-18-5	231-791-2	80-90	-

Components	Reach Registration Number	
Sodium dodecyl sulphate	01-2119489461-32-0019	

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

#### 4.1. Description of first aid measures

**General Advice** If symptoms persist, call a physician.

**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. If skin irritation persists,

call a physician.

**Ingestion** Clean mouth with water and drink afterwards plenty of water.

**Inhalation** Remove to fresh air. If not breathing, give artificial respiration. Get medical attention if

symptoms occur.

**Self-Protection of the First Aider** Use personal protective equipment as required.

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

Causes severe eye damage.

#### 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**

Water spray, carbon dioxide (CO2), dry chemical, alcohol-resistant foam.

## 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**

Sulfur oxides, Carbon monoxide (CO), Carbon dioxide (CO2).

#### 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

Do not flush into surface water or sanitary sewer system.

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

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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**

#### 7.1. Precautions for safe handling

Wear personal protective equipment/face protection. Ensure adequate ventilation. Do not get in eyes, on skin, or on clothing. Avoid ingestion and inhalation.

#### **Hygiene Measures**

Handle in accordance with good industrial hygiene and safety practice.

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

Keep containers tightly closed in a dry, cool and well-ventilated place.

Technical Rules for Hazardous Substances (TRGS) 510 Class 12 Storage Class (LGK) (Germany)

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

Use in laboratories

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

#### 8.1. Control parameters

#### **Exposure limits**

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

#### **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)
Sodium lauryl sulfate				DNEL = 4060mg/kg
151-21-3 (10-20)				bw/day

Component	Acute effects local (Inhalation)	Acute effects systemic (Inhalation)	Chronic effects local (Inhalation)	Chronic effects systemic (Inhalation)
Sodium lauryl sulfate				$DNEL = 285mg/m^3$
151-21-3 ( 10-20 )				-

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See values below.

Component	Fresh water	Fresh water	Water Intermittent	Microorganisms in	Soil (Agriculture)
		sediment		sewage treatment	
Sodium lauryl sulfate	PNEC = 0.176mg/L	PNEC = 6.97mg/kg	PNEC = 0.055mg/L	PNEC = 1.35mg/L	PNEC = 1.29 mg/kg
151-21-3 ( 10-20 )		sediment dw	-		soil dw

Component	Marine water	Marine water sediment	Marine water intermittent	Food chain	Air
Sodium lauryl sulfate	PNEC =	PNEC =			
151-21-3 ( 10-20 )	0.0176mg/L	0.697mg/kg			
		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** Goggles (European standard - EN 166)

Hand Protection Protective gloves

Glove material Nitrile rubber	Breakthrough time	Glove thickness	EU standard EN 374	Glove comments
Neoprene	See manufacturers recommendations	-	EN 3/4	(minimum requirement)
Natural rubber				
PVC				

**Skin and body protection** Long sleeved clothing.

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)

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** When workers are facing concentrations above the exposure limit they must use

appropriate certified respirators.

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

and maintained properly

Large scale/emergency use Use a NIOSH/MSHA or European Standard EN 136 approved respirator if exposure limits

are exceeded or if irritation or other symptoms are experienced **Recommended Filter type:** Particulates filter conforming to EN 143

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.

Recommended half mask:- Valve filtering: EN405; or; Half mask: EN140; plus filter, EN

141

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

Environmental exposure controls Prevent product from entering drains. Do not allow material to contaminate ground water

system.

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

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## 9.1. Information on basic physical and chemical properties

**Physical State** Liquid

Clear, Colourless **Appearance** Odor No information available No data available **Odor Threshold Melting Point/Range** No data available Softening Point No data available

**Boiling Point/Range**  $> 100 \, ^{\circ}\text{C} \, / > 212 \, ^{\circ}\text{F}$ @ 760 mmHg

Flammability (liquid) No data available

Flammability (solid,gas) Not applicable Liquid

**Explosion Limits** No data available

**Flash Point** Not applicable Method - No information available

**Autoignition Temperature** No data available No data available **Decomposition Temperature** 

(1%)Hq 9.1

Soluble

No data available **Viscosity** 

**Water Solubility** Solubility in other solvents No information available

Partition Coefficient (n-octanol/water)

Component log Pow Sodium lauryl sulfate 1.6

**Vapor Pressure** No data available

**Density / Specific Gravity** 1.01

**Bulk Density** Not applicable Liquid Vapor Density No data available (Air = 1.0)

**Particle characteristics** Not applicable (liquid)

9.2. Other information

**Molecular Weight** 288.38

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

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.

None under normal processing. **Hazardous Reactions** 

10.4. Conditions to avoid

Excess heat. Incompatible products.

10.5. Incompatible materials

Strong oxidizing agents.

10.6. Hazardous decomposition products

Sulfur oxides. Carbon monoxide (CO). Carbon dioxide (CO2).

#### **SECTION 11: TOXICOLOGICAL INFORMATION**

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

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#### **Product Information**

(a) acute toxicity;

Oral Based on ATE data, the classification criteria are not met

ATE = 6440 mg/kg

**Dermal**Based on available data, the classification criteria are not met
Inhalation
Based on available data, the classification criteria are not met

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
Sodium lauryl sulfate	1288 mg/kg ( Rat )	>2000 mg/kg ( Rabbit )	LC50 > 3900 mg/m <sup>3</sup> ( Rat ) 1 h
Water	-	-	-

(b) skin corrosion/irritation; Category 2

(c) serious eye damage/irritation; Category 1

(d) respiratory or skin sensitization;

Respiratory No data available Skin No data available

Component	Test method	Test species	Study result
Sodium lauryl sulfate	OECD Test Guideline 406	guinea pig	2/20 - non-sensitising
151-21-3 ( 10-20 )	Guinea Pig Maximisation Test		
	(GPMT)		

(e) germ cell mutagenicity; No data available

Component	Test method	Test species	Study result
Sodium lauryl sulfate 151-21-3 ( 10-20 )	OECD Test Guideline 471 OECD Test Guideline 476	Bacteria in vivo	negative
	Test method OECD 478	Mammalian in vitro	negative
		mouse in vivo	negative

(f) carcinogenicity; No data available

Component	Test method	Test species / Duration	Study result
Sodium lauryl sulfate	OECD Test Guideline 453	Oral / Rat	NOEL > 1125 mg/kg bw/day
151-21-3 (10-20)		2 years	

There are no known carcinogenic chemicals in this product

(g) reproductive toxicity: No data available

(3)				
	Component	Test method	Test species / Duration	Study result
	Sodium lauryl sulfate	OECD Test Guideline 416	rabbit	NOAEL = 300
	151-21-3 ( 10-20 )		2 Generation	mg/kg bw/day

(h) STOT-single exposure; No data available

(i) STOT-repeated exposure; No data available

Test method Read Across Data Test species / Duration mouse / 90 days

Study resultNOAEL = 488 mg/kg bw/dayTarget OrgansNo information available.

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No data available (j) aspiration hazard;

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** 

Contains a substance which is:. Harmful to aquatic organisms.

Component	Freshwater Fish	Water Flea	Freshwater Algae
Sodium lauryl sulfate	LC50: 10.2 - 22.5 mg/L, 96h	EC50: = 1.8 mg/L, 48h (Daphnia	EC50: 3.59 - 15.6 mg/L, 96h
	semi-static (Pimephales	magna)	static (Pseudokirchneriella
	promelas)		subcapitata)
	LC50: 5.8 - 7.5 mg/L, 96h static		EC50: = 117 mg/L, 96h
	(Pimephales promelas)		(Pseudokirchneriella subcapitata)
	LC50: = 4.5 mg/L, 96h (Lepomis		EC50: 30 - 100 mg/L, 96h
	macrochirus)		(Desmodesmus subspicatus)
	LC50: 4.2 - 4.8 mg/L, 96h		EC50: = 53 mg/L, 72h
	flow-through (Lepomis		(Desmodesmus subspicatus)
	macrochirus)		
	LC50: 4.06 - 5.75 mg/L, 96h		
	static (Lepomis macrochirus)		
	LC50: 9.9 - 20.1 mg/L, 96h		
	semi-static (Brachydanio rerio)		
	LC50: = 7.97 mg/L, 96h		
	flow-through (Brachydanio rerio)		
	LC50: = 4.2 mg/L, 96h		
	(Oncorhynchus mykiss)		
	LC50: = 4.62 mg/L, 96h		
	flow-through (Oncorhynchus		
	mykiss)		
	LC50: 4.3 - 8.5 mg/L, 96h static		
	(Oncorhynchus mykiss)		
	LC50: 22.1 - 22.8 mg/L, 96h		
	static (Pimephales promelas)		
	LC50: 8 - 12.5 mg/L, 96h static		
	(Pimephales promelas)		
	LC50: 15 - 18.9 mg/L, 96h static		
	(Pimephales promelas)		
	LC50: = 1.31 mg/L, 96h		
	semi-static (Cyprinus carpio)		
	LC50: 10.8 - 16.6 mg/L, 96h		
	static (Poecilia reticulata)		
	LC50: 13.5 - 18.3 mg/L, 96h		
	semi-static (Poecilia reticulata)		
	LC50: 6.2 - 9.6 mg/L, 96h		
	(Pimephales promelas)		

#### 12.2. Persistence and degradability

Soluble in water, Persistence is unlikely, based on information available. **Persistence** 

Degradation in sewage Contains substances known to be hazardous to the environment or not degradable in waste treatment plant

water treatment plants.

12.3. Bioaccumulative potential Bioaccumulation is unlikely

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 Component
 log Pow
 Bioconcentration factor (BCF)

 Sodium lauryl sulfate
 1.6
 No data available

12.4. Mobility in soil The product is water soluble, and may spread in water systems . Will likely be mobile in the

environment due to its water solubility. Highly mobile in soils

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** 

Waste is classified as hazardous. Dispose of in accordance with the European Directives

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on waste and hazardous waste. Dispose of in accordance with local regulations.

Contaminated Packaging Dispose of this container to hazardous or special waste collection point.

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

application specific.

Other Information Do not flush to sewer. Waste codes should be assigned by the user based on the

application for which the product was used. Do not empty into drains.

## **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
Sodium lauryl sulfate	151-21-3	205-788-1	-	-	Х	X	KE-21884	X	Х
Water	7732-18-5	231-791-2	-	-	Х	X	KE-35400	X	-

Component	CAS No	TSCA	TSCA Inventory notification - Active-Inactive	DSL	NDSL	AICS	NZIoC	PICCS
Sodium lauryl sulfate	151-21-3	X	ACTIVE	X	-	X	X	Х
Water	7732-18-5	Х	ACTIVE	X	-	Х	Х	Х

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

Not applicable

Component	CAS No	REACH (1907/2006) - Annex XIV - Substances Subject to Authorization		REACH Regulation (EC 1907/2006) article 59 - Candidate List of Substances of Very High Concern (SVHC)
Sodium lauryl sulfate	151-21-3	-	=	=
Water	7732-18-5	-	-	-

## 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
Sodium lauryl sulfate	151-21-3	Not applicable	Not applicable
Water	7732-18-5	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 .

#### **National Regulations**

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

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WGK Classification	Water endangering class = 2 (self classification)
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Component	Germany - Water Classification (AwSV)	Germany - TA-Luft Class	
Sodium lauryl sulfate WGK2			

	Component	Switzerland - Ordinance on the Reduction of Risk from handling of hazardous substances preparation (SR 814.81)	Switzerland - Ordinance on Incentive Taxes on Volatile Organic Compounds (OVOC)	Switzerland - Ordinance of the Rotterdam Convention on the Prior Informed Consent Procedure
	Sodium lauryl sulfate	Prohibited and Restricted		
L	151-21-3 ( 10-20 )	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

H315 - Causes skin irritation

H318 - Causes serious eye damage

H302 - Harmful if swallowed

H412 - Harmful to aquatic life with long lasting effects

#### Legend

Substances List

LD50 - Lethal Dose 50%

**CAS** - Chemical Abstracts Service

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

**ENCS** - Japanese Existing and New Chemical Substances AICS - Australian Inventory of Chemical Substances

NZIoC - New Zealand Inventory of Chemicals

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

**IECSC** - Chinese Inventory of Existing Chemical Substances

**KECL** - Korean Existing and Evaluated Chemical Substances

TWA - Time Weighted Average WEL - Workplace Exposure Limit

ACGIH - American Conference of Governmental Industrial Hygienists IARC - International Agency for Research on Cancer Predicted No Effect Concentration (PNEC)

**DNEL** - Derived No Effect Level RPE - Respiratory Protective Equipment

LC50 - Lethal Concentration 50% EC50 - Effective Concentration 50% NOEC - No Observed Effect Concentration POW - Partition coefficient Octanol:Water PBT - Persistent, Bioaccumulative, Toxic 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

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

**BCF** - Bioconcentration factor

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

MARPOL - International Convention for the Prevention of Pollution from Ships

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.

Use of personal protective equipment, covering appropriate selection, compatibility, breakthrough thresholds, care, maintenance, fit and standards.

First aid for chemical exposure, including the use of eye wash and safety showers.

Sodium dodecyl sulfate, 20% solution

Creation Date12-Jul-1999Revision Date09-Feb-2024Revision SummaryNot applicable.

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**

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