

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

Revision Date 30-Nov-2024 Revision Number 4

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

1.1. Product identifier

Product Description: TBE urea sample buffer (2X)

Cat No. : J60186

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

Avocado Research Chemicals Ltd. (Part of Thermo Fisher Scientific)

Shore Road, Heysham Lancashire, LA3 2XY, United Kingdom

Office Tel: +44 (0) 1524 850506 Office Fax: +44 (0) 1524 850608

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

Poison Centre - Emergency

information services

Ireland: National Poisons Information Centre (NPIC) -

01 809 2166 (8am-10pm, 7 days a week)

Malta: +356 2395 2000 Cyprus: +357 2240 5611

## **SECTION 2: HAZARDS IDENTIFICATION**

## 2.1. Classification of the substance or mixture

## GHS 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**

Reproductive Toxicity Category 1B (H360FD)

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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



## Signal Word

## **Danger**

#### **Hazard Statements**

H360FD - May damage fertility. May damage the unborn child

## **Precautionary Statements**

P201 - Obtain special instructions before use

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

P308 + P313 - IF exposed or concerned: Get medical advice/attention

## Additional EU labelling

Restricted to professional users

## 2.3. Other hazards

Toxic to terrestrial vertebrates

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 %	GHS Classification - According to GB-CLP Regulations UK SI 2019/720 and UK SI 2020/1567
Water	7732-18-5	231-791-2	44.17	-
Urea	57-13-6	EEC No. 200-315-5	42	-
.alphaD-Glucopyranoside, .betaD-fructofuranosyl, polymer with (chloromethyl)oxirane	26873-85-8		12	-
Tris (hydroxymethyl) aminomethane	77-86-1	201-064-4	1.1	-
Boric acid (H3BO3)	10043-35-3	233-139-2	0.6	Repr. 1B (H360FD)
Ethylenediaminetetraacetic acid, disodium salt dihydrate	6381-92-6	613-386-6	0.07	Acute Tox. 4 (H332) STOT RE 2 (H373)
Bromphenol blue	115-39-9	EEC No. 204-086-2	0.03	-
1,3-Benzenedisulfonic acid, 4-[[4-(ethylamino)-3-methylphenyl][4-(ethylimino)-3-methyl-2,5-cyclohexadien-1-ylidene]methyl]-, monosodium salt	2650-17-1	EEC No. 220-167-5	0.03	Skin Irrit.2 (H315) Eye Irrit.2 (H319) STOT SE 3 (H335)

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Full text of Hazard Statements: see section 16

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

## 4.1. Description of first aid measures

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

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

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 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

None reasonably foreseeable.

## 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**

Carbon dioxide (CO<sub>2</sub>). Powder. Water spray. In case of major fire and large quantities: Evacuate area. Fight fire remotely due to the risk of explosion.

## 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**

Nitrogen oxides (NOx), Sulfur oxides, Hydrogen bromide, Oxides of boron, Sodium oxides.

#### 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**

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#### 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**

## 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. 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.

Technical Rules for Hazardous Substances (TRGS) 510 Class 6.1D 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**

List source(s):

Component	The United Kingdom	European Union	Ireland
Boric acid (H3BO3)			TWA: 2 mg/m <sup>3</sup> 8 hr.
l ' '			STEL: 6 mg/m <sup>3</sup> 15 min

## **Biological limit values**

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

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## **Derived No Effect Level (DNEL)** / **Derived Minimum Effect Level (DMEL)** See table for values

Component	Acute effects local (Oral)	Acute effects systemic (Oral)	Chronic effects local (Oral)	Chronic effects systemic (Oral)
Ethylenediaminetetraacetic				DNEL = 25 mg/kg
acid, disodium salt dihydrate				
6381-92-6 ( 0.07 )				

Component	Acute effects local (Dermal)	Acute effects systemic (Dermal)	Chronic effects local (Dermal)	Chronic effects systemic (Dermal)
Urea 57-13-6 ( 42 )		DNEL = 580mg/kg bw/day		DNEL = 580mg/kg bw/day
Tris (hydroxymethyl) aminomethane 77-86-1 (1.1)				DNEL = 166.7mg/kg bw/day
Boric acid (H3BO3) 10043-35-3 ( 0.6 )				DNEL = 392mg/kg bw/day

Component	Acute effects local (Inhalation)	Acute effects systemic (Inhalation)	Chronic effects local (Inhalation)	Chronic effects systemic (Inhalation)
Urea		DNEL = 292mg/m <sup>3</sup>		DNEL = 292mg/m <sup>3</sup>
57-13-6 ( 42 )				
Tris (hydroxymethyl)				DNEL = 117.5mg/m <sup>3</sup>
aminomethane				
77-86-1 ( 1.1 )				
Boric acid (H3BO3)				$DNEL = 8.3mg/m^3$
10043-35-3 ( 0.6 )				
Ethylenediaminetetraacetic	DNEL = 3 mg/m <sup>3</sup>	$DNEL = 3 \text{ mg/m}^3$	DNEL = $0.6 \text{ mg/m}^3$	DNEL = 1,5 mg/m <sup>3</sup>
acid, disodium salt dihydrate	_	_		_
6381-92-6 ( 0.07 )				

# Predicted No Effect Concentration (PNEC) See values below.

Component	Fresh water	Fresh water sediment	Water Intermittent	Microorganisms in sewage treatment	Soil (Agriculture)
Tris (hydroxymethyl) aminomethane 77-86-1 (1.1)				PNEC = 300mg/L	
Boric acid (H3BO3) 10043-35-3 ( 0.6 )	PNEC = 2.9mg/L		PNEC = 13.7mg/L	PNEC = 10mg/L	PNEC = 5.7mg/kg soil dw
Ethylenediaminetetraacetic acid, disodium salt dihydrate 6381-92-6 ( 0.07 )	PNEC = 2,5 mg/l				PNEC = 1,1 mg/kg

Component	Marine water	Marine water sediment	Marine water intermittent	Food chain	Air
Boric acid (H3BO3) 10043-35-3 ( 0.6 )	PNEC = 2.9mg/L				
Ethylenediaminetetraacetic acid, disodium salt dihydrate 6381-92-6 ( 0.07 )	PNEC = 0,25 mg/l				

## 8.2. Exposure controls

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#### **Engineering Measures**

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
Natural rubber	See manufacturers	-	EN 374	(minimum requirement)
Nitrile rubber	recommendations			
Neoprene				
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

Liquid

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:-** Particle filtering: EN149:2001 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

Odor No information available

Odor Threshold
Melting Point/Range
Softening Point
Boiling Point/Range
Flammability (liquid)
No data available
No data available
No information available
No data available

Flammability (solid,gas)

Explosion Limits

Not applicable

No data available

Flash Point No information available Method - No information available

Autoignition Temperature No data available

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Decomposition Temperature<br/>pHNo data available<br/>No information availableViscosityNo data available

Water Solubility Immiscible

Solubility in other solvents No information available

Partition Coefficient (n-octanol/water)

Component log Pow
Urea <-1.73
Boric acid (H3BO3) -0.757
Bromphenol blue 6.77
1,3-Benzenedisulfonic acid, 1.516
4-[[4-(ethylamino)-3-methylphenyl][4-(ethylimino)-3-methyl-2,5-cyclohexadien-1-ylidene]methyl]-, monosodium salt

Vapor Pressure No data available Density / Specific Gravity No data available

Bulk DensityNot applicableLiquidVapor DensityNo data available(Air = 1.0)Particle characteristicsNot applicable (liquid)

9.2. Other information

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

10.1. Reactivity

None known, based on information available

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

Hazardous PolymerizationNo information available.Hazardous ReactionsNone under normal processing.

10.4. Conditions to avoid

Incompatible products. Excess heat.

10.5. Incompatible materials

None known.

10.6. Hazardous decomposition products

Nitrogen oxides (NOx). Sulfur oxides. Hydrogen bromide. Oxides of boron. Sodium oxides.

## **SECTION 11: TOXICOLOGICAL INFORMATION**

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

**Product Information** 

(a) acute toxicity;

OralBased on available data, the classification criteria are not metDermalBased on available data, the classification criteria are not metInhalationBased on available data, the classification criteria are not met

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## Toxicology data for the components

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
Water	-	-	-
Urea	LD50 = 8471 mg/kg (Rat)	-	-
Tris (hydroxymethyl) aminomethane	LD50 = 5900 mg/kg (Rat)	LD50 > 5000 mg/kg (Rat)	-
Boric acid (H3BO3)	2660 mg/kg ( Rat )	> 2000 mg/kg(Rabbit)	Not listed

(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

(g) reproductive toxicity; Category 1B

(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

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

	Component	Freshwater Fish	Water Flea	Freshwater Algae
	Urea	LC50: 16200 - 18300 mg/L, 96h (Poecilia reticulata)	EC50: = 3910 mg/L, 48h Static (Daphnia magna)	
Γ	Boric acid (H3BO3)	Gambusia affinis: LC50: 5600	EC50: 115 - 153 mg/L, 48h	•

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mg/L/96h	(Daphnia magna)	

Component	Microtox	M-Factor
Urea	= 23914 mg/L EC50 Photobacterium phosphoreum 5 min	
Boric acid (H3BO3)	-	

12.2. Persistence and degradability

**Persistence** Immiscible with water.

**12.3. Bioaccumulative potential** May have some potential to bioaccumulate

Component	log Pow	Bioconcentration factor (BCF)
Urea	<-1.73	<10 dimensionless
Boric acid (H3BO3)	-0.757	0 dimensionless
Bromphenol blue	6.77	No data available
1,3-Benzenedisulfonic acid, 4-[[4-(ethylamino)-3-methylphenyl][4-(ethyli mino)-3-methyl-2,5-cyclohexadien-1-yliden e]methyl]-, monosodium salt		No data available

12.4. Mobility in soil Spillage unlikely to penetrate soil Is not likely mobile in the environment due its low water

solubility.

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 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 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**

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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

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
Water	7732-18-5	231-791-2	ı	-	X	X	KE-35400	X	-
Urea	57-13-6	200-315-5	ı	-	X	Х	KE-35144	X	X
.alphaD-Glucopyranoside,	26873-85-8	-	-	-	X	Х	KE-17698	-	-
.betaD-fructofuranosyl, polymer with (chloromethyl)oxirane									
Tris (hydroxymethyl) aminomethane	77-86-1	201-064-4	-	-	Х	Х	KE-01403	Х	Х
Boric acid (H3BO3)	10043-35-3	233-139-2	-	-	Х	Х	KE-03499	X	Х
Ethylenediaminetetraacetic acid, disodium salt dihydrate	6381-92-6	-	1	ı	X	Х	-	Х	ı
Bromphenol blue	115-39-9	204-086-2	-	-	X	Х	KE-02746	X	Х
1,3-Benzenedisulfonic acid, 4-[[4-(ethylamino)-3-methylphenyl] [4-(ethylimino)-3-methyl-2,5-cycloh exadien-1-ylidene]methyl]-, monosodium salt		220-167-5	-	-	X	Х	KE-13523	-	-

Component	CAS No	TSCA	TSCA Inventory notification - Active-Inactive	DSL	NDSL	AICS	NZIoC	PICCS
Water	7732-18-5	X	ACTIVE	Χ	•	Χ	Χ	Х

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Urea	57-13-6	Χ	ACTIVE	X	-	Х	Х	Х
.alphaD-Glucopyranoside, .betaD-fructofuranosyl, polymer with (chloromethyl)oxirane	26873-85-8	Х	ACTIVE	-	X	-	X	-
Tris (hydroxymethyl) aminomethane	77-86-1	X	ACTIVE	X	-	X	X	Х
Boric acid (H3BO3)	10043-35-3	Х	ACTIVE	Х	-	X	Х	Х
Ethylenediaminetetraacetic acid, disodium salt dihydrate	6381-92-6	-	-	X	-	X	X	Х
Bromphenol blue	115-39-9	Х	ACTIVE	X	-	Х	Х	Х
1,3-Benzenedisulfonic acid, 4-[[4-(ethylamino)-3-methylphenyl] [4-(ethylimino)-3-methyl-2,5-cycloh exadien-1-ylidene]methyl]-, monosodium salt	2650-17-1	Х	ACTIVE	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

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)
Water	7732-18-5	-	-	-
Urea	57-13-6	-	-	-
.alphaD-Glucopyranoside, .betaD-fructofuranosyl, polymer with (chloromethyl)oxirane	26873-85-8	-	-	-
Tris (hydroxymethyl) aminomethane	77-86-1	-	-	-
Boric acid (H3BO3)	10043-35-3	-	Use restricted. See entry 30. (see link for restriction details) Use restricted. See entry 75. (see link for restriction details)	SVHC Candidate list - 233-139-2 - Toxic for reproduction, Article 57c
Ethylenediaminetetraacetic acid, disodium salt dihydrate	6381-92-6	-	-	-
Bromphenol blue	115-39-9	-	-	-
1,3-Benzenedisulfonic acid, 4-[[4-(ethylamino)-3-methylphenyl][4 -(ethylimino)-3-methyl-2,5-cyclohex adien-1-ylidene]methyl]-, monosodium salt	2650-17-1	-	-	-

After the sunset date the use of this substance requires either an authorization or can only be used for exempted uses, e.g. use in scientific research and development which includes routine analytics or use as intermediate.

## **REACH links**

https://echa.europa.eu/authorisation-list

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

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

Component	CAS No	Seveso III Directive (2012/18/EC) - Qualifying Quantities for Major Accident	, ,
		Notification	Requirements
Water	7732-18-5	Not applicable	Not applicable
Urea	57-13-6	Not applicable	Not applicable
.alphaD-Glucopyranoside, .betaD-fructofuranosyl,	26873-85-8	Not applicable	Not applicable

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polymer with (chloromethyl)oxirane Tris (hydroxymethyl) 77-86-1 Not applicable Not applicable aminomethane Boric acid (H3BO3) Not applicable 10043-35-3 Not applicable Ethylenediaminetetraacetic 6381-92-6 Not applicable Not applicable acid, disodium salt dihydrate Bromphenol blue 115-39-9 Not applicable Not applicable 1.3-Benzenedisulfonic acid. 2650-17-1 Not applicable Not applicable 4-[[4-(ethylamino)-3-methylp henyl][4-(ethylimino)-3-meth yl-2,5-cyclohexadien-1-ylide ne]methyl]-, monosodium

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

salt

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 94/33/EC on the protection of young people at work

Take note of Dir 92/85/EC on the protection of pregnant and breastfeeding women at work

## **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
Urea	WGK1	
Tris (hydroxymethyl) aminomethane	WGK1	
Boric acid (H3BO3)	WGK1	
Ethylenediaminetetraacetic acid, disodium salt dihydrate	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
Urea	Prohibited and Restricted		
57-13-6 ( 42 )	Substances		
Ethylenediaminetetraacetic acid, disodium	Prohibited and Restricted		
salt dihydrate	Substances		
6381-92-6 ( 0.07 )			
Bromphenol blue	Prohibited and Restricted		
115-39-9 ( 0.03 )	Substances		
1,3-Benzenedisulfonic acid,	Prohibited and Restricted		
4-[[4-(ethylamino)-3-methylphenyl][4-(ethyli			
mino)-3-methyl-2,5-cyclohexadien-1-yliden			
e]methyl]-, monosodium salt			

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2650-17-1 ( 0.03 )		

#### 15.2. Chemical safety assessment

Chemical Safety Assessment/Reports (CSA/CSR) are not required for mixtures

## **SECTION 16: OTHER INFORMATION**

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

H360FD - May damage fertility. May damage the unborn child

H315 - Causes skin irritation

H319 - Causes serious eve irritation

H332 - Harmful if inhaled

H335 - May cause respiratory irritation

## 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 Substances List

PICCS - Philippines Inventory of Chemicals and Chemical Substances **ENCS** - Japanese Existing and New Chemical Substances

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

WEL - Workplace Exposure Limit

TWA - Time Weighted Average **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 LD50 - Lethal Dose 50%

LC50 - Lethal Concentration 50% EC50 - Effective Concentration 50% POW - Partition coefficient Octanol:Water NOEC - No Observed Effect Concentration

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

Key literature references and sources for data

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

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

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:

Shins

**Transport Association** 

ATE - Acute Toxicity Estimate

VOC - (Volatile Organic Compound)

ICAO/IATA - International Civil Aviation Organization/International Air

MARPOL - International Convention for the Prevention of Pollution from

Physical hazards On basis of test data **Health Hazards** Calculation method **Environmental hazards** Calculation method

**Training Advice** 

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

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.

**Prepared By** Health, Safety and Environmental Department

**Revision Date** 30-Nov-2024 **Revision Summary** Not applicable.

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

Revision Date 30-Nov-2024

**Disclaimer** 

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**End of Safety Data Sheet**