

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

Revision Date 21-Mar-2024

Revision Number 4

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

1.1. Product identifier

Product Description:	TBE sample buffer (6X)
Cat No. :	J60357

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

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

Reproductive Toxicity

Environmental hazards

Based on available data, the classification criteria are not met

Category 1B (H360FD)

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

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
Water	7732-18-5	231-791-2	59.63	-
Glycerin	56-81-5	200-289-5	36	-
Tris (hydroxymethyl) aminomethane	77-86-1	201-064-4	2.73	-
Boric acid (H3BO3)	10043-35-3	233-139-2	1.39	Repr. 1B (H360FD)
Ethylenediaminetetraacetic acid, disodium salt dihydrate	6381-92-6	613-386-6	0.19	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-(ethyli mino)-3-methyl-2,5-cyclohexadien-1-yliden e]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)

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.			
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	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 (CO₂). 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

Carbon monoxide (CO), Carbon dioxide (CO₂), 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

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.

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) 510Class 6.1DStorage Class (LGK) (Germany)Class 6.1D

7.3. Specific end use(s)

Use in laboratories

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

Exposure limits

List source(s): **UK** - EH40/2005 Work Exposure Limits, Fourth edition. Published 2020. **IRE -** 2021 Code of Practice for the Chemical Agents Regulations, Schedule 1. Published by the Health and Safety Authority

Component	The United Kingdom	European Union	Ireland
Glycerin	TWA: 10 mg/m ³ 8 hr (mist		TWA: 10 mg/m ³ 8 hr. (mist)
	only)		
Boric acid (H3BO3)			TWA: 2 mg/m ³ 8 hr.
			STEL: 6 mg/m ³ 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

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	Component	Acute effects local	Acute effects	Chronic effects local	Chronic effects
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TBE sample buffer (6X)

	(Oral)	systemic (Oral)	(Oral)	systemic (Oral)
Ethylenediaminetetraacetic				DNEL = 25 mg/kg
acid, disodium salt dihydrate				
6381-92-6 (0.19)				

Component	Acute effects local (Dermal)	Acute effects systemic (Dermal)	Chronic effects local (Dermal)	Chronic effects systemic (Dermal)
Tris (hydroxymethyl) aminomethane 77-86-1 (2.73)				DNEL = 166.7mg/kg bw/day
Boric acid (H3BO3) 10043-35-3 (1.39)				DNEL = 392mg/kg bw/day

Component	Acute effects local (Inhalation)	Acute effects systemic (Inhalation)	Chronic effects local (Inhalation)	Chronic effects systemic (Inhalation)
Glycerin 56-81-5 (36)			DNEL = 56mg/m ³	
Tris (hydroxymethyl) aminomethane 77-86-1 (2.73)				DNEL = 117.5mg/m ³
Boric acid (H3BO3) 10043-35-3 (1.39)				DNEL = 8.3mg/m ³
Ethylenediaminetetraacetic acid, disodium salt dihydrate 6381-92-6 (0.19)	DNEL = 3 mg/m ³	DNEL = 3 mg/m ³	DNEL = 0,6 mg/m ³	DNEL = 1,5 mg/m ³

Predicted No Effect Concentration (PNEC) See values below.

Component	Fresh water	Fresh water	Water Intermittent	Microorganisms in	Soil (Agriculture)
		sediment		sewage treatment	
Glycerin	PNEC = 0.885mg/L	PNEC = 3.3mg/kg	PNEC = 8.85mg/L	PNEC = 1000mg/L	PNEC =
56-81-5 (36)		sediment dw		-	0.141mg/kg soil dw
Tris (hydroxymethyl)				PNEC = 300mg/L	
aminomethane					
77-86-1 (2.73)					
Boric acid (H3BO3)	PNEC = 2.9mg/L		PNEC = 13.7mg/L	PNEC = 10mg/L	PNEC = 5.7mg/kg
10043-35-3 (1.39)				-	soil dw
Ethylenediaminetetraacetic	PNEC = 2,5 mg/l				PNEC = 1,1 mg/kg
acid, disodium salt					
dihydrate					
6381-92-6 (0.19)					

Component	Marine water	Marine water sediment	Marine water intermittent	Food chain	Air
Glycerin	PNEC =	PNEC = 0.33mg/kg			
56-81-5 (36)	0.0885mg/L	sediment dw			
Boric acid (H3BO3)	PNEC = 2.9mg/L				
10043-35-3 (1.39)					
Ethylenediaminetetraacetic	PNEC = 0,25 mg/l				
acid, disodium salt					
dihydrate					
6381-92-6 (0.19)					

8.2. Exposure controls

Engineering Measures

TBE sample buffer (6X)

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 equ Eye Protection		Wear safety glasses with side shields (or goggles) (European standard - EN 166)					
Hand Protection	Protectiv	ve gloves					
Glove material Nitrile rubber	Breakthrough time See manufacturers	Glove thickness	EU standard EN 374	Glove comments (minimum requirement)			

Inspect gloves before use.

Skin and body protection

Long sleeved clothing.

recommendations

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	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 Odor Odor Threshold Melting Point/Range Softening Point Boiling Point/Range Flammability (liquid) Flammability (solid,gas) Explosion Limits	Blue No information available No data available No data available No data available No information available No data available Not applicable No data available	Liquid
Flash Point Autoignition Temperature Decomposition Temperature pH Viscosity Water Solubility Solubility in other solvents Partition Coefficient (n-octanol/wate Component	No information available No data available No data available No information available No data available Miscible No information available er) Iog Pow	Method - No information available

Glycerin	-1.75
Boric acid (H3BO3)	-0.757
Bromphenol blue	6.77
1,3-Benzenedisulfonic acid,	1.516
4-[[4-(ethylamino)-3-methylphenyl][4-(ethylamino)-3-methylamino)-3-methylamino)-3-methylamino)[3-methylamino)-3-methylamino]	e
thylimino)-3-methyl-2,5-cyclohexadien	-
1-ylidene]methyl]-, monosodium salt	
Vapor Pressure	No data available
Density / Specific Gravity	No data available
Bulk Density	Not applicable
Vapor Density	No data available
Particle characteristics	Not applicable (liquid)

9.2. Other information

TBE sample buffer (6X)

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 reaction	ons
Hazardous Polymerization Hazardous Reactions	No information available. None under normal processing.
10.4. Conditions to avoid	Incompatible products. Excess heat.
10.5. Incompatible materials	None known.

10.6. Hazardous decomposition products

Carbon monoxide (CO). Carbon dioxide (CO₂). Nitrogen oxides (NOx). Sulfur oxides. Hydrogen bromide. Oxides of boron. Sodium oxides.

Liquid (Air = 1.0)

SECTION 11: TOXICOLOGICAL INFORMATION

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

Product Information

(a) acute toxicity; Oral

> Dermal Inhalation

Based on available data, the classification criteria are not met Based on available data, the classification criteria are not met Based on available data, the classification criteria are not met

Toxicology data for the components

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
Water	-	-	-
Glycerin	12600 mg/kg(Rat)	> 10 g/kg (Rabbit)	> 2.75 mg/L/4h (Rat)(mist)
Tris (hydroxymethyl) aminomethane	LD50 = 5900 mg/kg (Rat)	LD50 > 5000 mg/kg (Rat)	-

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Boric acid (H3BO3)	2660 mg/kg (Rat)	> 2000 mg/kg (Rabbit)	Not listed
		I I	
(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 carcinoge	enic chemicals in this product	
(g) reproductive toxicity;	Category 1B		
<i></i>	N I 1.2 N 11		
(h) STOT-single exposure;	No data available		
(i) STOT-repeated exposure;	No data available		
Target Organs	None known.		
(j) aspiration hazard;	No data available		
Symptoms / effects, both acute and	No information available.		
delayed			

11.2. Information on other hazards

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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

Freshwater Fish	Water Flea	Freshwater Algae
LC50: 51 - 57 mL/L, 96h static		
(Cheomyneirus mykiss)		
Gambusia affinis: LC50: 5600 mg/L/96h	EC50: 115 - 153 mg/L, 48h (Daphnia magna)	-
	LC50: 51 - 57 mL/L, 96h static (Oncorhynchus mykiss) Gambusia affinis: LC50: 5600	LC50: 51 - 57 mL/L, 96h static (Oncorhynchus mykiss) Gambusia affinis: LC50: 5600 EC50: 115 - 153 mg/L, 48h

Component	Microtox	M-Factor
Boric acid (H3BO3)	-	

Miscible with water, Persistence is unlikely, based on information available.

12.2. Persistence and degradability

12.3. Bioaccumulative potential

Persistence

Bioaccumulation is unlikely

Component	log Pow	Bioconcentration factor (BCF)
Glycerin	-1.75	No data available
Boric acid (H3BO3)	-0.757	0 dimensionless
Bromphenol blue	6.77	No data available
1,3-Benzenedisulfonic acid, 4-[[4-(ethylamino)-3-methylphenyl][4-(ethyl mino)-3-methyl-2,5-cyclohexadien-1-ylider e]methyl]-, monosodium salt		No data available
<u>12.4. Mobility in soil</u>	The product is water soluble, and may sp environment due to its water solubility. H	pread in water systems Will likely be mobile in the lighly mobile in soils
<u>12.5. Results of PBT and vPvB</u> assessment	No data available for assessment.	
<u>12.6. Endocrine disrupting</u> properties Endocrine Disruptor Information	This product does not contain any known	or suspected endocrine disruptors
12.7. Other adverse effects		

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

IMDG/IMO

Not regulated

<u>14.1. UN number</u> <u>14.2. UN proper shipping name</u> <u>14.3. Transport hazard class(es)</u> <u>14.4. Packing group</u>

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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
<u>14.1. UN number</u> <u>14.2. UN proper shipping name</u> <u>14.3. Transport hazard class(es)</u> <u>14.4. Packing group</u>	
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

China, X = listed, Australia, U.S.A. (TSCA), Canada (DSL/NDSL), Europe (EINECS/ELINCS/NLP), Australia (AICS), Korea (KECL), China (IECSC), Japan (ENCS), Philippines (PICCS), Taiwan (TCSI), Japan (ISHL), New Zealand (NZIoC), Japan (ISHL). 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	-	-	Х	Х	KE-35400	Х	-
Glycerin	56-81-5	200-289-5	-	-	Х	Х	KE-29297	Х	Х
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	Х	Х
Ethylenediaminetetraacetic acid, disodium salt dihydrate	6381-92-6	-	-	-	Х	Х	-	-	-
Bromphenol blue	115-39-9	204-086-2	-	-	Х	Х	KE-02746	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	220-167-5	_	-	Х	х	KE-13523	-	-

Component	CAS No	TSCA	TSCA Inventory notification - Active-Inactive	DSL	NDSL	AICS	NZIoC	PICCS
Water	7732-18-5	Х	ACTIVE	Х	-	Х	X	Х
Glycerin	56-81-5	Х	ACTIVE	Х	-	Х	X	Х
Tris (hydroxymethyl) aminomethane	77-86-1	Х	ACTIVE	Х	-	Х	Х	Х
Boric acid (H3BO3)	10043-35-3	Х	ACTIVE	Х	-	Х	Х	Х
Ethylenediaminetetraacetic acid, disodium salt dihydrate	6381-92-6	-	-	Х	-	Х	X	Х
Bromphenol blue	115-39-9	Х	ACTIVE	Х	-	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	-	-	-
Glycerin	56-81-5	-	-	-
Tris (hydroxymethyl) aminomethane	77-86-1	-	-	-
Boric acid (H3BO3)	10043-35-3	-	Use restricted. See item 30. (see link for restriction details) Use restricted. See item 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	Seveso III Directive (2012/18/EC) - Qualifying Quantities for Safety Report Requirements
Water	7732-18-5	Not applicable	Not applicable
Glycerin	56-81-5	Not applicable	Not applicable
Tris (hydroxymethyl) aminomethane	77-86-1	Not applicable	Not applicable
Boric acid (H3BO3)	10043-35-3	Not applicable	Not applicable
Ethylenediaminetetraacetic acid, disodium salt dihydrate	6381-92-6	Not applicable	Not applicable
Bromphenol blue	115-39-9	Not applicable	Not applicable
1,3-Benzenedisulfonic acid, 4-[[4-(ethylamino)-3-methylp henyl][4-(ethylimino)-3-meth yl-2,5-cyclohexadien-1-ylide ne]methyl]-, monosodium salt	2650-17-1	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 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
Glycerin	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
Ethylenediaminetetraacetic acid, disodium salt dihydrate 6381-92-6 (0.19)	Prohibited and Restricted Substances		
Bromphenol blue 115-39-9 (0.03)	Prohibited and Restricted Substances		
1,3-Benzenedisulfonic acid, 4-[[4-(ethylamino)-3-methylphenyl][4-(ethyli mino)-3-methyl-2,5-cyclohexadien-1-yliden e]methyl]-, monosodium salt 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 eye irritation

H332 - Harmful if inhaled

H335 - May cause respiratory irritation

H360Fd - May damage fertility. Suspected of damaging the unborn child

Legend

CAS - Chemical Abstracts Service

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

EINECS/ELINCS - European Inventory of Existing Commercial Chemical

TBE sample buffer (6X)

Substances/EU List of Notified Chemical Substances	DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List
PICCS - Philippines Inventory of Chemicals and 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
DNEL - Derived No Effect Level	Predicted No Effect Concentration (PNEC)
RPE - Respiratory Protective Equipment	LD50 - Lethal Dose 50%
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	ICAO/IATA - International Civil Aviation Organization/International Air Transport Association
IMO/IMDG - International Maritime Organization/International Maritime Dangerous Goods Code	MARPOL - International Convention for the Prevention of Pollution from Ships
OECD - Organisation for Economic Co-operation and Development	ATE - Acute Toxicity Estimate
BCF - Bioconcentration factor	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
Classification and presedure used to derive the classification	on for mixtures according to Pagulation (EC) 1272/2008 [CI P]
	on for mixtures according to Regulation (EC) 1272/2008 [CLP]:
Physical hazards On basis of test data Health Hazards Calculation method	

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 hygiene.

Prepared By	Health, Safety and Environmental Department
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Revision Summary	New emergency telephone response service provider.

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

Disclaimer

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End of Safety Data Sheet