

Version: 1.5 Issue Date: 06.03.2019 Last revised date: 24.08.2023 Supersedes Date: 22.12.2022

SAFETY DATA SHEET

Classification (REGULATION (EC) No 1272/2008) as amended by GB-CLP Regulation, UK SI 2019/720, and UK SI 2020/1567

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

1.1 Product identifier

Product name: ZETASPERSE® 1600

Chemical name:

Blend of polymers, acetylene diol and ethoxylated alcohol

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

Identified uses: Industrial use

Uses advised against: None known.

1.3 Details of the supplier of the safety data sheet

Company Name	Relling	k Operations GmbH ghauser Str. 1-11 BEssen any
Telephone	: +49 20	01 173 01
Fax	: +49 20	01 173 3000
E-mail	: produ	ctsafety-cs@evonik.com

1.4 Emergency telephone number:

24-Hour Health: +49 2365 49 2232Emergency+49 2365 49 4423 (Fax)

National Poison Information Service (NPIS) England, Scotland and Wales: NHS: 111

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

The product has been classified according to the legislation in force.

Classification (REGULATION (EC) No 1272/2008) as amended by GB-CLP Regulation, UK SI 2019/720, and UK SI 2020/1567

Health Hazards

Serious eye damage	Category 1	H318: Causes serious eye damage.
Skin sensitizer	Category 1	H317: May cause an allergic skin reaction.

2.2 Label Elements



Version: 1.5 Issue Date: 06.03.2019 Last revised date: 24.08.2023 Supersedes Date: 22.12.2022

Signal Words:	Danger
	Duligoi
Hazard Statement(s):	H318: Causes serious eye damage. H317: May cause an allergic skin reaction.
Precautionary Statements Prevention:	P261: Avoid breathing dust/fume/gas/mist/vapors/spray. P280: Wear protective gloves/protective clothing/eye protection/face protection.
Response:	 P302+P352: IF ON SKIN: Wash with plenty of soap and water. P333+P313: If skin irritation or rash 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.

Hazardous ingredients which must be listed on the label:

2,4,7,9-Tetramethyldec-5-yne-4,7-diol

2.3 Other hazards

None known.

SECTION 3: Composition/information on ingredients

Chemical name:

Blend of polymers, acetylene diol and ethoxylated alcohol

3.2 Mixtures

Chemical name	Concentrati on	CAS-No.	EC No.	-	REACH Registration No.	M-Factor:	Notes
Alcohols, C11-15- secondary, ethoxylated	10 - <20%	68131-40-8	614-295-4		-	No data available.	
propane- 1,2-diol	10 - <20%	57-55-6	200-338-0		01- 211945680 9-23	No data available.	#
2,4,7,9- Tetramethy Idec-5-yne- 4,7-diol	5 - <10%	126-86-3	204-809-1	UK-01- 982540637 0-8	01- 211995439 0-39	No data available.	

* All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

This substance has workplace exposure limit(s). ## This substance is listed as SVHC.



Chemical name	Classification	Notes
Alcohols, C11-15- secondary, ethoxylated	Classification: Eye Irrit.: 2: H319;	None.
	Supplemental label information: None known.	
propane-1,2-diol	Classification: None known.	Not applicabl
	Supplemental label information: None known.	е
2,4,7,9-Tetramethyldec-5- yne-4,7-diol	Classification: Eye Dam.: 1: H318; Skin Sens.: 1B: H317; Aquatic Chronic: 3: H412;	None.
	Supplemental label information: None known.	

The full text for all H-statements is displayed in section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

General information:	Immediately remove contaminated clothing.
Inhalation:	fresh air supply, consult a doctor if feeling unwell.
Skin Contact:	In case of contact with skin wash off with soap and water. In case of discomfort: Supply with medical care.
Eye contact:	In case of contact with eyes rinse thoroughly with plenty of water and seek medical advice
Ingestion:	Thoroughly clean the mouth with water In case of discomfort: Supply with medical care.
Personal Protection for First-aid Responders:	No data available.
4.2 Most important symptoms and effects,	both acute and delayed
Symptoms:	Risk of serious damage to eyes.
Hazards:	No data available.
4.3 Indication of immediate medical attention	on and special treatment needed
Treatment:	Treat symptomatically.
SECTION 5: Firefighting measures	
5.1 Extinguishing media	
Suitable extinguishing media:	foam, carbon dioxide, dry powder, water spray.
Unsuitable extinguishing media:	High volume water jet.



-		
5.2	Special hazards arising from the substance or mixture:	In the event of fire the following can be released: - carbon dioxide, carbon monoxide Under certain conditions of combustion traces of other toxic substances cannot be excluded
5.3	Advice for firefighters	
	Special fire fighting procedures:	No specific precautions.
	Special protective equipment for fire- fighters:	Do not inhale explosion and/or combustion gases. Use self- contained breathing apparatus and wear protective suit
SE	CTION 6: Accidental release measures	
6.1	Personal precautions, protective equipment and emergency procedures:	Use personal protective equipment.
6.1.	1 For non-emergency personnel:	No data available.
6.1.	2 For emergency responders:	No data available.
6.2	Environmental Precautions:	Do not allow to enter drains or waterways Prevent product from getting into subsoil/soil.
6.3	Methods and material for containment and cleaning up:	Pick up with absorbent material (e.g. sand, sawdust, general-purpose binder). Dispose of absorbed material in accordance with the regulations.
6.4	Reference to other sections:	For further information on exposure monitoring and disposal see sections 8 and 13.
SE	CTION 7: Handling and storage	
7.1	Precautions for safe handling	
	Technical measures:	No data available.
	Local/Total ventilation:	No data available.
	Safe handling advice:	Provide good ventilation of working area (local exhaust ventilation if necessary).Do not inhale gases/vapours/aerosols. Avoid contact with skin and eyes.
	Contact avoidance measures:	No data available.
7.2	Conditions for safe storage, including any ir	ncompatibilities
	Safe storage conditions:	Keep container tightly closed in a cool, well-ventilated place.Keep away from direct sunlight. Protect from frost.Do not store with acids or alkalies Do not store together with oxidizing agents.
	Safe packaging materials:	No data available.

7.3 Specific end use(s):

GB

No further recommendations.

SECTION 8: Exposure controls/personal protection



8.1 Control Parameters

Occupational Exposure Limits

Chemical name	Туре	Form of exposure	Exposure L	imit Values	Source
propane-1,2-diol	TWA Particulate	Particulate		10 mg/m3	EH40 WEL (12 2011)
	TWA	Total vapour and particulate s.	150 ppm	474 mg/m3	EH40 WEL (12 2011)

Please refer to the latest edition of the appropriate source text and consult an industrial hygienist or similar professional, or local agencies, for further information.

Biological Limit Values

No biological exposure limits noted for the ingredient(s).

DNEL-Values

Remarks: DNEL-Values

Critical component	Туре	Route of Exposure	Health Warnings	Remarks
propane-1,2-diol	Workers	Eyes	Local effect;	No hazard identified
	Workers	Inhalation	Systemic, long-term; 168 mg/m3	Repeated dose toxicity
	General population	Inhalation	Local, long-term; 10 mg/m3	Repeated dose toxicity
	General population	Eyes	Local effect;	No hazard identified
	Workers	Inhalation	Local, long-term; 10 mg/m3	Repeated dose toxicity
	General population	Inhalation	Systemic, long-term; 50 mg/m3	Repeated dose toxicity
2,4,7,9-Tetramethyldec-5-yne- 4,7-diol	Workers	Dermal	Systemic, short-term; 1.5 mg/kg	Repeated dose toxicity
	General population	Dermal	Systemic, short-term; 0.75 mg/kg	Repeated dose toxicity
	General population	Inhalation	Systemic, long-term; 0.43 mg/m3	Repeated dose toxicity
	Workers	Dermal	Systemic, long-term; 0.5 mg/kg	Repeated dose toxicity
	General population	Oral	Systemic, short-term; 0.75 mg/kg	Repeated dose toxicity
	General population	Inhalation	Systemic, short-term; 1.29 mg/m3	Repeated dose toxicity
	Workers	Inhalation	Systemic, short-term; 5.28 mg/m3	Repeated dose toxicity
	General population	Oral	Systemic, long-term; 0.25 mg/kg	Repeated dose toxicity
	Workers	Inhalation	Systemic, long-term; 1.76 mg/m3	Repeated dose toxicity
	General population	Dermal	Systemic, long-term; 0.25 mg/kg	Repeated dose toxicity
	General population	Eyes	Local effect;	Medium hazard (no threshold derived)
	Workers	Eyes	Local effect;	Medium hazard (no threshold derived)

PNEC-Values

Remarks: PNEC-Values

Critical component	Environmental compartment	PNEC-Values	Remarks	
propane-1,2-diol	Sewage treatment plant	20000 mg/l		
· ·	Sediment (marine water)	57.2 mg/kg		
	Aquatic (marine water)	26 mg/l		
	Soil	50 mg/kg		
	Aquatic (freshwater)	260 mg/l		
	Sediment (freshwater)	572 mg/kg		
2,4,7,9-Tetramethyldec-5-yne- 4,7-diol	Aquatic (marine water)	0.004 mg/l		



Soil		0.028 mg/kg	
Sewa	age treatment plant	7 mg/l	
Sedir	ment (freshwater)	0.32 mg/kg	
Aqua	atic (freshwater)	0.04 mg/l	
Sedir	ment (marine water)	0.032 mg/kg	

8.2 Exposure controls

Appropriate Engineering Controls:

No data available.

Individual protection measures, such as personal protective equipment

Eye/face protection:	Tightly fitting safety goggles
Hand Protection:	Additional Information: gloves made of chloroprene (CR, e.g. Neoprene), gloves made of nitril (NBR)
Skin and Body Protection:	protective clothing
Respiratory Protection:	in case of formation of vapours/aerosols: Short term: filter apparatus, combination filter A-P2
Hygiene measures:	Wash hands before breaks and immediately after handling the product. When using do not eat, drink or smoke. Remove soiled or soaked clothing immediately. Use skin protective preparation as preventive skin protection.
Environmental Controls:	The environmental regulations on the control and monitoring of environmental exposures are to be observed.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance	
Physical state:	liquid
Form:	liquid
Color:	Amber
Odor:	Characteristic
Odor Threshold:	not measured
Freezing point:	not measured
Boiling Point:	98 °C
Flammability:	not measured
Upper/lower limit on flammability or ex	plosive limits
Explosive limit - upper:	not measured
Explosive limit - lower:	not measured
Flash Point:	> 77 °C
Auto-ignition temperature:	not measured
Decomposition Temperature:	not measured
pH:	4 at 20 °C Concentration: 100 g/l Concentration: 10 %

in Water

Viscosity



Version: 1.5 Issue Date: 06.03.2019 Last revised date: 24.08.2023 Supersedes Date: 22.12.2022

SECTION 10: Stability and reactivity	
Evaporation Rate:	not measured
Metal Corrosion:	Not corrosive to metals
Self-ignition:	not measured
Oxidizing properties:	not oxidizing
Explosive properties:	not measured
0.2 Other information	
Relative vapor density:	not measured
Density:	1.045 g/cm3 at 20 °C
Relative density:	not measured
Vapor pressure:	23.97 hPa at 21 °C
Partition coefficient (n-octanol/water):	not measured
Solubility (other):	not measured
Solubility in Water:	miscible
Solubility(ies)	
Kinematic viscosity:	not measured
Dynamic viscosity:	not measured

SE

Reactivity:	see section "Possibility of hazardous reactions".
Chemical Stability:	The product is stable under normal conditions.
Possibility of hazardous reactions:	No hazardous reactions with proper storage and handling
Conditions to avoid:	direct sunlight Freezing.
Incompatible Materials:	Oxidizing agents. Acids. Alkalies.
Hazardous Decomposition Products:	None with proper storage and handling.
	Chemical Stability: Possibility of hazardous reactions: Conditions to avoid: Incompatible Materials: Hazardous Decomposition

SECTION 11: Toxicological information

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

Information on likely routes of exposure

Inhalation:	Information on effects are given below.
Skin Contact:	Information on effects are given below.
Eye contact:	Information on effects are given below.
Ingestion:	Information on effects are given below.

Acute toxicity (list all possible routes of exposure)

Oral

Product: No data available.



Components: Alcohols, C11-15- secondary, ethoxylated propane-1,2-diol 2,4,7,9-Tetramethyldec-5- yne-4,7-diol	Not toxic after single exposure, No data available. LD 50, Rat, Female, Male, > 22,000 mg/kg LD 50, Rat, Female, Male, > 5,000 mg/kg
Dermal Product: Components: Alcohols, C11-15- secondary, ethoxylated propane-1,2-diol 2,4,7,9-Tetramethyldec-5- yne-4,7-diol	LD 50, ATEmix, > 5,000 mg/kg Not toxic after single exposure, No data available. LD 50, Rabbit, > 2,000 mg/kg, No deaths observed. Not toxic after single exposure, No classification LD 50, Rabbit, > 5,000 mg/kg, OECD 402
Inhalation Product: Components: Alcohols, C11-15- secondary, ethoxylated propane-1,2-diol 2,4,7,9-Tetramethyldec-5- yne-4,7-diol	No data available. Not toxic after single exposure, Vapour, No data available. Not toxic after single exposure, Dust and mist, No data available. Vapour, Not toxic after single exposure, No data available. Dust and mist, Not toxic after single exposure, Not applicable LC 50, Rat, 4 h, > 5 mg/l, Dust and mist Vapour, Not toxic after single exposure, No data available.
Repeated dose toxicity Product: Components: Alcohols, C11-15- secondary, ethoxylated propane-1,2-diol 2,4,7,9-Tetramethyldec-5- yne-4,7-diol	No data available. No data available. No data available. NOAEL - No Observable Adverse Effect Level, Rat, Oral, daily, 500 mg/kg
Skin Corrosion/Irritation Product: Components: Alcohols, C11-15- secondary, ethoxylated propane-1,2-diol 2,4,7,9-Tetramethyldec-5- yne-4,7-diol	No data available. No data available. Not irritating, OECD 404, Rabbit Not irritating, OECD 404, Rabbit, 4 h
Serious Eye Damage/Eye Irri Product: Components: Alcohols, C11-15- secondary, ethoxylated propane-1,2-diol 2,4,7,9-Tetramethyldec-5- yne-4,7-diol	itation No data available. Irritating. Not irritating, OECD 405, Rabbit Risk of serious damage to eyes., US-EPA-method, Rabbit
Respiratory or Skin Sensitiza Product: Components: Alcohols, C11-15- secondary, ethoxylated	ation No data available. No data available.



propane-1,2-diol	Local Lymph Node Assay (LLNA), OECD 429, Mouse, Not a skin sensitizer.
2,4,7,9-Tetramethyldec-5- yne-4,7-diol	Local Lymph Node Assay (LLNA), OECD 429, Mouse, Skin sensitizer
Carcinogenicity Product: Components: Alcohols, C11-15- secondary, ethoxylated propane-1,2-diol 2,4,7,9-Tetramethyldec-5- yne-4,7-diol	No data available. No data available. No data available. No data available.
Germ Cell Mutagenicity No data available.	
In vitro Product: Components: Alcohols, C11-15- secondary, ethoxylated propane-1,2-diol 2,4,7,9-Tetramethyldec-5- yne-4,7-diol	No data available. No data available. No data available. Ames test, OECD 471: , negative, Own study Chromosomal aberration, OECD 473: , negative, Own study gene mutation test, OECD 476: , negative, Own study
In vivo Product: Components: Alcohols, C11-15- secondary, ethoxylated propane-1,2-diol 2,4,7,9-Tetramethyldec-5- yne-4,7-diol	No data available. No data available. No data available. No data available.
Reproductive toxicity Product: Components: Alcohols, C11-15- secondary, ethoxylated propane-1,2-diol 2,4,7,9-Tetramethyldec-5- yne-4,7-diol	No data available. No data available. No data available. Oral
Specific Target Organ Toxic Product:	ity - Single Exposure No data available.
Components: Alcohols, C11-15- secondary, ethoxylated propane-1,2-diol 2,4,7,9-Tetramethyldec-5- yne-4,7-diol	No data available. No data available. No data available.
Specific Target Organ Toxic Product:	ity - Repeated Exposure No data available.



Version: 1.5 Issue Date: 06.03.2019 Last revised date: 24.08.2023 Supersedes Date: 22.12.2022

Alcohols, C11-15- secondary, ethoxylated	No data available.
propane-1,2-diol 2,4,7,9-Tetramethyldec-5-	No data available. No data available.
yne-4,7-diol	

Aspiration Hazard	
Product:	Not classified
Components:	
Alcohols, C11-15-	Not classified
secondary, ethoxylated	
propane-1,2-diol	Not classified
2,4,7,9-Tetramethyldec-5-	Not applicable
yne-4,7-diol	

11.2 Information on other hazards

Other information	
Product:	

No data available.

SECTION 12: Ecological information

12.1 Toxicity:

Acute hazards to the aquatic environment:

No data available. No data available. LC 50, Oncorhynchus mykiss, 96 h, 40,613 mg/l LC 50, Pimephales promelas, 96 h, 36 mg/l OECD 203 LC 50, Cyprinus carpio, 96 h, 42 mg/l OECD 203 NOEC, Cyprinus carpio, 96 h, 10 mg/l OECD 203
No data available.
No data available.
EC 50, Daphnia sp., 48 h, > 100 mg/l, Literature LC 50, Daphnia magna, 48 h, 43,500 mg/l LC 50, Ceriodaphnia dubia, 48 h, 18,340 mg/l US-EPA-method
EC 50, Daphnia magna, 48 h, 88 mg/l OECD 202 EC 50, Daphnia magna, 48 h, 91 mg/l OECD 202 NOEC, Daphnia magna, 48 h, 43 mg/l OECD 202
No data available.
No data available.
EC 50 (Scenedesmus capricornutum (fresh water algae), 72 h): 24,200 mg/l Literature EC 50 (Algae (Pseudokirchneriella subcapitata), 96 h): 19,000 mg/l (OECD 201) growth rate EC 50 (Skeletonema costatum (marine diatom), 96 h): 19,100 mg/l



2,4,7,9-Tetramethyldec-5- yne-4,7-diol	(OECD 201) growth rate EC 50 (Algae (Pseudokirchneriella subcapitata), 72 h): 15 mg/l (OECD 201) EC 10 (Algae (Pseudokirchneriella subcapitata), 72 h): 1.8 mg/l (OECD 201) ErC50 (Algae (Pseudokirchneriella subcapitata), 72 h): 82 mg/l (OECD 201)
Toxicity to microorganisms	
Product:	No data available.
Components:	
Alcohols, C11-15-	No data available.
secondary, ethoxylated	
propane-1,2-diol	EC0, Pseudomonas putida, 18 h, > 20,000 mg/l
	EC 50, activated sludge, 3 h, Approximate, 630 mg/l, OECD 209
yne-4,7-diol	
Toxicity to soil dwelling org	anisms
Product:	No data available.
Components:	
Alcohols, C11-15-	No data available.
secondary, ethoxylated	
propane-1,2-diol	No data available.
2,4,7,9-Tetramethyldec-5-	No data available.
yne-4,7-diol	
Toxicity to terrestrial organi	sms
Product:	No data available.
Components:	
Alcohols, C11-15-	No data available.
secondary, ethoxylated	
propane-1,2-diol	No data available.
2,4,7,9-Tetramethyldec-5-	No data avalladie.
yne-4,7-diol	
Chronic hazards to the aquatic en	vironment:
Fish	
Product:	No data available.
Components:	
Alcohols, C11-15-	No data available.
secondary, ethoxylated	
propane-1,2-diol	No data available.
2,4,7,9-Tetramethyldec-	No data available.
5-yne-4,7-diol	
Aquatic Invertebrates	
Product:	No data available.
Components:	No data available.
Alcohols, C11-15-	No data available.
secondary, ethoxylated	
propane-1,2-diol	NOEC, Ceriodaphnia dubia, 7 d, 13,020 mg/l, US-EPA-method
2,4,7,9-Tetramethyldec-	No data available.
5-yne-4,7-diol	
· ·	
Toxicity to Aquatic Plants	
Product:	No data available.
Components:	
Alcohols, C11-15-	No data available.
secondary ethoxylated	

secondary, ethoxylated



propane-1,2-diol No data available. 2,4,7,9-Tetramethyldec-5- No data available. yne-4,7-diol Toxicity to microorganisms Product: No data available. Components: Alcohols, C11-15-No data available. secondary, ethoxylated propane-1,2-diol EC0, Pseudomonas putida, 18 h, > 20,000 mg/l 2,4,7,9-Tetramethyldec-5- EC 50, activated sludge, 3 h, Approximate, 630 mg/l, OECD 209 yne-4,7-diol

Toxicity to soil dwelling organisms

Product:	No data available.
Components:	
Alcohols, C11-15-	No data available.
secondary, ethoxylated	
propane-1,2-diol	No data available.
2,4,7,9-Tetramethyldec-5-	No data available.
yne-4,7-diol	

Toxicity to terrestrial organisms

Product:	No data available.
Components:	
Alcohols, C11-15-	No data available.
secondary, ethoxylated	
propane-1,2-diol	No data available.
2,4,7,9-Tetramethyldec-5-	No data available.
yne-4,7-diol	

12.2 Persistence and Degradability

Biodegradation

Product:	No data available.
Components:	
Alcohols, C11-15-	No data available.
secondary, ethoxylated	
propane-1,2-diol	> 70 %, 28 d, OECD 301 A, The product is easily biodegradable.
2,4,7,9-Tetramethyldec-5-	5 %, 28 d, OECD 301 B, The product is not biodegradable., aerobic
yne-4,7-diol	8 - 12 %, 60 d, OECD 301 B, The product is not biodegradable., aerobic
-	25.4 %, 57 d, OECD 302 A, The product is not biodegradable., aerobic

12.3 Bioaccumulative potential

Bioconcentration Factor (BCF)	
Product:	No data available.
Components:	
Alcohols, C11-15-	No data available.
secondary, ethoxylated	
propane-1,2-diol	Not to be expected.
2,4,7,9-Tetramethyldec-5-	No data available.
yne-4,7-diol	
Partition Coefficient n-octan	ol / water (log Kow)
Product:	not measured
Components:	
Alcohole C11-15-	No data available

Alcohols, C11-15-	No data available.
secondary, ethoxylated	



propane-1,2-diol -1.07 2,4,7,9-Tetramethyldec-5- 2.8, 22 °C, OECD 117, Yes yne-4,7-diol

12.4 Mobility in soil:

Product No data available. Components: Alcohols, C11-15-secondar∳lo data available. ethoxylated propane-1,2-diol No data available. 2,4,7,9-Tetramethyldec-5yne-4,7-diol

12.5 Results of PBT and vPvB assessment:

Product	No data available.
Components:	
Alcohols, C11-15-secondar ethoxylated	ryŅo data available.
propane-1,2-diol	Non-classified vPvB substance, Non-classified PBT substance
2,4,7,9-Tetramethyldec-5- yne-4,7-diol	No data available.

12.6 Other adverse effects:

Other	hazards
Prod	luct:

Do not allow to enter soil, waterways or waste water canal.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

General information:	No data available.
Disposal methods:	In accordance with local authority regulations, take to special waste incineration plant
Contaminated Packaging:	If empty contaminated containers are recycled or disposed of, the receiver must be informed about possible hazards.

SECTION 14: Transport information

14.1 UN/ID No.

Not regulated as a dangerous good

14.2 UN proper shipping name

Not regulated as a dangerous good

14.3 Transport hazard class(es)

Not regulated as a dangerous good

14.4 Packing group

Not regulated as a dangerous good



14.5 Environmental hazards

Not regulated as a dangerous good

14.6 Special precautions for user

Not applicable

14.7 Maritime transport in bulk according to IMO instruments

Not applicable for product as supplied.

SECTION 15: Regulatory information

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

EU. Directive 2012/18/EU (SEVESO III) on major accident hazards involving dangerous substances, Annex I: Not applicable

15.2 Chemical safety assessment: No chemical safety assessment was carried out for this product.

International regulations

Montreal protocol Not applicable

Stockholm convention Not applicable

Rotterdam convention Not applicable

Kyoto protocol Not applicable

SECTION 16: Other information

Abbreviations and acronyms:

EH40 WEL:	
EH40 WEL / TWA:	

UK. EH40 Workplace Exposure Limits (WELs), as amended Time Weighted Average (TWA):

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AIIC -Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw -Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR -Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; EIGA -European Industrial Gases Association; ELx - Loading rate associated with x% response; EmS -Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No



Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS -Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID -Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - substance of very high concern; TCSI -Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

Notes:

Not	Not applicable
applicable	

Key literature references and No data available. sources for data:

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

Classification according to Regulation (EC) No 1272/2008 as amended.	Classification procedure
Serious eye damage, Category 1	On basis of test data
Skin sensitizer, Category 1	On basis of test data

Wording of the statements in section 2 and 3

H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H412	Harmful to aquatic life with long lasting effects.

Training information:

Comply with national laws regulating employee instruction.

Revision Information Changes since the last version are highlighted in the margin. This version replaces all previous versions. **Disclaimer:** This information and all further technical advice is based on our present knowledge and experience. However, it implies no liability or other legal responsibility on our part, including with regard to existing third party intellectual property rights, especially patent rights. In particular, no warranty, whether express or implied, or guarantee of product properties in the legal sense is intended or implied. We reserve the right to make any changes according to technological progress or further developments. The customer is not released from the obligation to conduct careful inspection and testing of incoming goods. Performance of the product described herein should be verified by testing, which should be carried out only by qualified experts in the sole responsibility of a customer. Reference to trade names used by other companies is neither a recommendation, nor does it imply that similar products could not be used.