

Isoeugenol Formulation

Version	Revision Date:	SDS Number:	Date of last issue: 06.04.2024
4.4	28.09.2024	9374215-00010	Date of first issue: 27.08.2021

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

1.1	Product identifier Trade name	:	Isoeugenol Formulation
1.2	Relevant identified uses of th	e s	substance or mixture and uses advised against
	Use of the Sub- stance/Mixture		Veterinary product
	Recommended restrictions on use	:	Not applicable
1.3	Details of the supplier of the	saf	ety data sheet
	Company	:	MSD Walton Manor, Walton MK7 7AJ Milton Keynes - United Kingdom
	Telephone	:	+1-908-740-4000
	E-mail address of person responsible for the SDS	:	EHSDATASTEWARD@msd.com

1.4 Emergency telephone number

+1-908-423-6000

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

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

Acute toxicity, Category 4 Skin irritation, Category 2 Eye irritation, Category 2 Skin sensitisation, Category 1 Specific target organ toxicity - single exposure, Category 3 Long-term (chronic) aquatic hazard, Category 3 H332: Harmful if inhaled.
H315: Causes skin irritation.
H319: Causes serious eye irritation.
H317: May cause an allergic skin reaction.
H335: May cause respiratory irritation.

H412: Harmful to aquatic life with long lasting effects.

2.2 Label elements

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

According to REACH Regulation (EC) No 1907/2006, as amended by UK REACH Regulations SI 2019/758



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Hazar	d pictograms	:		
Signal	l word	:	Warning	
Hazar	d statements	:	H317 May H319 Caus H332 Harm H335 May	es skin irritation. cause an allergic skin reaction. es serious eye irritation. ful if inhaled. cause respiratory irritation. ful to aquatic life with long lasting effects.
Preca	utionary statements	:	Prevention:	
				n skin thoroughly after handling. I release to the environment.
			P280 Wear tection	protective gloves/ eye protection/ face pro- n.
			Response:	
				IF INHALED: Remove person to fresh d keep comfortable for breathing. Call a ON CENTER/ doctor if you feel unwell.
				skin irritation or rash occurs: Get medical e/ attention.
				eye irritation persists: Get medical advice/

Hazardous components which must be listed on the label: Isoeugenol

2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative tive and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Components

Chemical name	CAS-No.	Classification	Concentration
	EC-No.		(% w/w)
	Index-No.		
	Registration number		
Isoeugenol	97-54-1	Acute Tox. 4; H302	>= 50 - < 70
	202-590-7	Acute Tox. 4; H332	
	604-094-00-X	Acute Tox. 4; H312	
		Skin Irrit. 2; H315	
		Eye Irrit. 2; H319	
		Skin Sens. 1A;	



According to REACH Regulation (EC) No 1907/2006, as amended by UK REACH Regulations SI 2019/758

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			H317 STOT SE 3; H335 Aquatic Chronic 3; H412 specific concentra- tion limit Skin Sens. 1A; H317 >= 0.01 %

For explanation of abbreviations see section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

All Bocomption of mot and mode	
General advice	 In the case of accident or if you feel unwell, seek medical advice immediately. When symptoms persist or in all cases of doubt seek medical advice.
Protection of first-aiders	: First Aid responders should pay attention to self-protection, and use the recommended personal protective equipment when the potential for exposure exists (see section 8).
If inhaled	 If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention if symptoms occur.
In case of skin contact	 In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Get medical attention. Wash clothing before reuse. Thoroughly clean shoes before reuse.
In case of eye contact	 In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. If easy to do, remove contact lens, if worn. Get medical attention.
If swallowed	: If swallowed, DO NOT induce vomiting. Get medical attention if symptoms occur. Rinse mouth thoroughly with water.
4.2 Most important symptoms and	l effects, both acute and delayed
Risks	: Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation.

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			Harmful if inhaled May cause respir	
	ation of any immediate t tment	mec :		d special treatment needed ically and supportively.
SECTIO	N 5: Firefighting meas	sure	es	
5.1 Extin	guishing media			
	able extinguishing media	:	Water spray Alcohol-resistant Carbon dioxide (Dry chemical	
Unsı med	uitable extinguishing ia	:	None known.	
5.2 Spec	ial hazards arising from	the	substance or m	ixture
-	cific hazards during fire-			bustion products may be a hazard to health.
Haza ucts	ardous combustion prod-	:	Carbon oxides	
5.3 Advid	e for firefighters			
Spec	cial protective equipment refighters	:		e, wear self-contained breathing apparatus. tective equipment.
Spec ods	cific extinguishing meth-	:	cumstances and Use water spray	g measures that are appropriate to local cir- the surrounding environment. to cool unopened containers. aged containers from fire area if it is safe to do

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions	:	Use personal protective equipment. Follow safe handling advice (see section 7) and personal pro- tective equipment recommendations (see section 8).
6.2 Environmental precautions Environmental precautions	:	Avoid release to the environment. Prevent further leakage or spillage if safe to do so. Prevent spreading over a wide area (e.g. by containment or oil barriers).

Retain and dispose of contaminated wash water.



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			rivers or watercourses, inform the Environ- nergency telephone number 0800 807060).
6.3 Method	ds and material for co	ntainment and clean	ing up
Metho	ds for cleaning up	For large spills, p ment to keep ma be pumped, stor Clean up remain bent. Local or national posal of this mat employed in the mine which regu Sections 13 and	ert absorbent material. provide dyking or other appropriate contain- aterial from spreading. If dyked material can e recovered material in appropriate container. ing materials from spill with suitable absor- l regulations may apply to releases and dis- erial, as well as those materials and items cleanup of releases. You will need to deter- lations are applicable. 15 of this SDS provide information regarding ational requirements.

6.4 Reference to other sections

See sections: 7, 8, 11, 12 and 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

	5	
Technical measures	:	See Engineering measures under EXPOSURE CONTROLS/PERSONAL PROTECTION section.
Local/Total ventilation	:	If sufficient ventilation is unavailable, use with local exhaust ventilation.
Advice on safe handling	:	Do not get on skin or clothing. Do not breathe vapours. Do not swallow. Do not get in eyes. Wash skin thoroughly after handling. Handle in accordance with good industrial hygiene and safety practice, based on the results of the workplace exposure as- sessment Keep container tightly closed. Already sensitised individuals, and those susceptible to asthma, allergies, chronic or recurrent respiratory disease, should consult their physician regarding working with respira- tory irritants or sensitisers. Take care to prevent spills, waste and minimize release to the
Hygiene measures	:	environment. If exposure to chemical is likely during typical use, provide eye flushing systems and safety showers close to the working place. When using do not eat, drink or smoke. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before re-use. The effective operation of a facility should include review of engineering controls, proper personal protective equipment, appropriate degowning and decontamination procedures, industrial hygiene monitoring, medical surveillance and the



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			use of administr	ative controls.	
7.2 Condit	ions for safe storage,	inc	uding any incon	npatibilities	
Requirements for storage : areas and containers		:	Keep in properly labelled containers. Store locked up. Keep tightly closed. Keep in a cool, well-ventilated place. Store in accordance with the particular national regulations.		
Advice on common storage		:	Do not store with the following product types: Strong oxidizing agents Gases		
-	ic end use(s) fic use(s)	:	No data availabl	le	

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational Exposure Limits

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
Isoeugenol	97-54-1	TWA	250 µg/m3 (OEB 2)	Internal
	Further information: DSEN			
		Wipe limit	100 μg/100 cm²	Internal

8.2 Exposure controls

Engineering measures

Use appropriate engineering controls and manufacturing technologies to control airborne concentrations (e.g., drip-less quick connections).

All engineering controls should be implemented by facility design and operated in accordance with GMP principles to protect products, workers, and the environment. Laboratory operations do not require special containment.

Personal protective equipment

Eye/face protection	:	Wear safety glasses with side shields or goggles. If the work environment or activity involves dusty conditions, mists or aerosols, wear the appropriate goggles. Wear a faceshield or other full face protection if there is a potential for direct contact to the face with dusts, mists, or aerosols.
Hand protection Material	:	Chemical-resistant gloves
Skin and body protection Respiratory protection	:	Work uniform or laboratory coat. No personal respiratory protective equipment normally re- quired.



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SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance Colour Odour Odour Threshold	:	viscous liquid yellow floral No data available
рН	:	No data available
Melting point/freezing point	:	No data available
Initial boiling point and boiling	:	266 °C
range Flash point	:	No data available
Evaporation rate	:	No data available
Flammability (solid, gas)	:	Not applicable
Upper explosion limit / Upper flammability limit	:	No data available
Lower explosion limit / Lower flammability limit	:	No data available
Vapour pressure	:	< 0.02 mmHg (25 °C)
Relative vapour density	:	No data available
Relative density	:	No data available
Density	:	No data available
Solubility(ies) Water solubility Solubility in other solvents	:	dispersible soluble Solvent: Ethanol
Partition coefficient: n-	:	Not applicable
octanol/water Auto-ignition temperature	:	No data available
Decomposition temperature	:	No data available
Viscosity Viscosity, kinematic	:	No data available
Explosive properties	:	Not explosive
Oxidizing properties	:	The substance or mixture is not classified as oxidizing.

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	information mability (liquids)	: No data availa	ble	
Mole	cular weight	: No data availa	ble	
Partic	cle size	: Not applicable	•	

SECTION 10: Stability and reactivity

10.1 Reactivity Not classified as a reactivity haza	rd.		
10.2 Chemical stability Stable under normal conditions.			
10.3 Possibility of hazardous reaction	ons		
Hazardous reactions :			
10.4 Conditions to avoid			
Conditions to avoid :	None known.		
10.5 Incompatible materials			
Materials to avoid :	Oxidizing agents		
10.6 Hazardous decomposition products No hazardous decomposition products are known.			

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Information on likely routes of exposure	:	Inhalation Skin contact Ingestion Eye contact
Acute toxicity		
Harmful if inhaled.		
Product:		
Acute oral toxicity	:	Acute toxicity estimate: > 2,000 mg/kg Method: Calculation method
Acute inhalation toxicity	:	Acute toxicity estimate: 3 mg/l Exposure time: 4 h Test atmosphere: dust/mist Method: Calculation method
Acute dermal toxicity	:	Acute toxicity estimate: > 2,000 mg/kg

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			Method: Calcula	ation method
<u>Com</u>	ponents:			
Isoeu	igenol:			
	e oral toxicity	:	LD50 (Rat): 1,29	90 mg/kg
Acute	inhalation toxicity	:	Acute toxicity es Exposure time: Test atmospher Method: Expert	e: dust/mist
Acute	e dermal toxicity	:	LD50 (Rabbit): ²	1,912 mg/kg
-	corrosion/irritation es skin irritation.			
<u>Com</u>	ponents:			
Isoeu	ıgenol:			
Speci Resu		:	Rabbit Skin irritation	
	ous eye damage/eye i es serious eye irritatio		on	
<u>Com</u>	ponents:			
Isoeu	ıgenol:			
Resu	lt	:	Irritation to eyes	s, reversing within 21 days
Resp	iratory or skin sensi	tisatio	on	
Skin	sensitisation			
May o	cause an allergic skin	reactio	on.	
-	iratory sensitisation lassified based on ava		information.	
<u>Com</u>	ponents:			
Isoeu	ıgenol:			
Test	Type sure routes ies od	:	Maximisation Te Skin contact Humans OECD Test Gui positive	
Test Expos Speci Metho	sure routes ies	:	Maximisation Te Skin contact Guinea pig OECD Test Gui	

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Resu	ılt	:	positive	
Asse	ssment	:	Probability or evid	dence of high skin sensitisation rate in hu-
	n cell mutagenicity lassified based on avai	ilable	information.	
<u>Com</u>	ponents:			
Isoe	ugenol:			
Geno	ptoxicity in vitro	:	Test Type: Bacte Result: negative	rial reverse mutation assay (AMES)
			Test Type: Chron Result: negative	nosome aberration test in vitro
Geno	otoxicity in vivo	:	Test Type: Mamn cytogenetic assay Species: Mouse Application Route Result: negative	
	inogenicity classified based on avai	ilable	information.	
-	oductive toxicity classified based on avai	ilable	information.	
<u>Com</u>	ponents:			
Isoe	ugenol:			
Effec	ts on fertility	:	Test Type: Two-g Species: Rat Application Route Result: negative	eneration reproduction toxicity study e: Ingestion
Effec ment	ts on foetal develop-	:	Test Type: Embry Species: Rat Application Route Result: negative	vo-foetal development :: Ingestion
	T - single exposure cause respiratory irritati	ion.		
<u>Com</u>	ponents:			
Isoe	ugenol:			
	ssment	:	May cause respir Based on data fro	atory irritation. om similar materials

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STOT - repeated exposure

Not classified based on available information.

Repeated dose toxicity

Components:

Isoeugenol:

Rat
75 mg/kg
150 mg/kg
Ingestion
14 Weeks

Aspiration toxicity

Not classified based on available information.

SECTION 12: Ecological information

12.1 Toxicity

Components:

Isoeugenol	
13064461101	

Toxicity to fish	:	EC50 (Oncorhynchus mykiss (rainbow trout)): 5.1 mg/l Exposure time: 96 h
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): 7.5 mg/l Exposure time: 48 h
Toxicity to algae/aquatic plants	:	ErC50 (Skeletonema costatum (marine diatom)): 3.76 mg/l Exposure time: 72 h
		NOEC (Skeletonema costatum (marine diatom)): 1.7 mg/l Exposure time: 72 h
Toxicity to daphnia and other aquatic invertebrates (Chron- ic toxicity)	:	NOEC: 0.4 mg/l Exposure time: 21 d Species: Daphnia magna (Water flea) Method: OECD Test Guideline 211

12.2 Persistence and degradability

Components:

Isoeugenol:

Biodegradability	:	Result: Readily biodegradable.
		Biodegradation: 79 %
		Exposure time: 28 d
		Method: OECD Test Guideline 301F

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12.3 Bio	accumulative potential			
<u>Cor</u>	nponents:			
Par	eugenol: tition coefficient: n- anol/water	:	log Pow: 3.04	
	bility in soil data available			
12.5 Res	sults of PBT and vPvB a	sse	ssment	
<u>Pro</u>	duct:			
Ass	essment	:	to be either persis	nixture contains no components considered stent, bioaccumulative and toxic (PBT), or nd very bioaccumulative (vPvB) at levels of
12.6 Oth	er adverse effects			
<u>Pro</u>	duct:			
End tial	locrine disrupting poten-	:	ered to have end	nixture does not contain components consid- ocrine disrupting properties for environment REACH Article 57(f).

SECTION 13: Disposal considerations

13.1 Waste treatment methods	
Product	 Dispose of in accordance with local regulations. According to the European Waste Catalogue, Waste Codes are not product specific, but application specific. Waste codes should be assigned by the user, preferably in discussion with the waste disposal authorities.
Contaminated packaging	 Do not dispose of waste into sewer. Empty containers should be taken to an approved waste han- dling site for recycling or disposal. If not otherwise specified: Dispose of as unused product.

SECTION 14: Transport information

14.1 UN number

ADN	: Not regulated as a dangerous good
ADR	: Not regulated as a dangerous good
RID	: Not regulated as a dangerous good
IMDG	: Not regulated as a dangerous good
ΙΑΤΑ	: Not regulated as a dangerous good

14.2 UN proper shipping name

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ADN		: N	Not regulated as a	a dangerous good
ADR		: N	Not regulated as a	a dangerous good
RID		: N	Not regulated as a	a dangerous good
IMDG	i	: N	Not regulated as a	a dangerous good
ΙΑΤΑ		: N	Not regulated as a	a dangerous good
14.3 Trans	sport hazard class(es)			
ADN		: N	Not regulated as a	a dangerous good
ADR		: N	Not regulated as a	a dangerous good
RID		: N	Not regulated as a	a dangerous good
IMDG	i	: N	Not regulated as a	a dangerous good
ΙΑΤΑ		: N	Not regulated as a	a dangerous good
14.4 Packi	ing group			
ADN		: N	Not regulated as a	a dangerous good
ADR		: N	Not regulated as a	a dangerous good
RID		: N	Not regulated as a	a dangerous good
IMDG	i	: N	Not regulated as a	a dangerous good
ΙΑΤΑ	(Cargo)	: N	Not regulated as a	a dangerous good
ΙΑΤΑ	(Passenger)	: N	Not regulated as a	a dangerous good
-	conmental hazards egulated as a dangerou	s good	1	
-	ial precautions for us	er		
	sport in bulk accordin	-	-	
Rema	arks	: N	Not applicable for	product as supplied.

SECTION 15: Regulatory information

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

Relevant EU provisions transposed through retained EU law

UK REACH List of restrictions (Annex 17)	: Conditions of restriction for the fol- lowing entries should be considered: Number on list 3
	Substance(s) or mixture(s) are listed here according to their appearance in the regulation, irrespective of their use/purpose or the conditions of the restriction. Please refer to the condi-

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					tions in corresponding Regulation to determine whether an entry is appli- cable to the placing on the market or not.
	REACH Candidate list c cern (SVHC) for Authori	of substances of very hig sation	jh	:	Not applicable
The	Persistent Órganic Poll julation (EU) 2019/1021	utants Regulations (reta as amended for Great E		:	Not applicable
,	ulation (EC) on substan	nces that deplete the ozo	one	:	Not applicable
UŔ	UK REACH List of substances subject to authorisation (Annex XIV)				Not applicable
ĞВ	GB Export and import of hazardous chemicals - Prior Informed Consent (PIC) Regulation			:	Not applicable
	· · · · · · · · · · · · · · · · · · ·	azards Regulations 201 Not applicable	5 (CON	ΛA	H)

Other regulations:

Take note of The Management of Health and Safety at Work Regulations 1999 (requirements relating to protection of young people at work contained in Regulation 19) and of Directive 94/33/EC on the protection of young people at work.

The components of this product are reported in the following inventories:

AICS	:	not determined
DSL	:	not determined
IECSC	:	not determined

15.2 Chemical safety assessment

A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

Other information	:	Items where changes have been made to the previous version are highlighted in the body of this document by two vertical lines.
Full text of H-Statements		
H302	:	Harmful if swallowed.
H312	:	Harmful in contact with skin.
H315	:	Causes skin irritation.
H317	:	May cause an allergic skin reaction.
H319	:	Causes serious eye irritation.
H332	:	Harmful if inhaled.
H335	:	May cause respiratory irritation.
H412	:	Harmful to aquatic life with long lasting effects.
Full text of other abbreviation	ons	

Full text of other abbreviations

Acute	Tov	
Acute	107.	•

Acute toxicity

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Aqua Eye I Skin S Skin S STOT	Irrit. Sens.	: Eye irritation : Skin irritation : Skin sensitisatio	onic) aquatic hazard on organ toxicity - single exposure

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; 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; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

Further information

Sources of key data used to : Internal technical data, data from raw material SDSs, OECD compile the Safety Data eChem Portal search results and European Chemicals Agen-Sheet cy, http://echa.europa.eu/

Classification procedure:

Classification of the mixture:

		•
Acute Tox. 4	H332	Calculation method
Skin Irrit. 2	H315	Calculation method
Eye Irrit. 2	H319	Calculation method
Skin Sens. 1	H317	Calculation method
STOT SE 3	H335	Calculation method



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Aquatic Chronic 3		H412	Calculation method	

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 is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and shall not be considered a warranty or quality specification of any type. The information provided relates only to the specific material identified at the top of this SDS and may not be valid when the SDS material is used in combination with any other materials or in any process, unless specified in the text. Material users should review the information and recommendations in the specific context of their intended manner of handling, use, processing and storage, including an assessment of the appropriateness of the SDS material in the user's end product, if applicable.

GB / EN