

## **Benzyl Alcohol Formulation**

Version	Revision Date:	SDS Number:	Date of last issue: 30.09.2023
3.3	06.04.2024	9374198-00007	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	:	Benzyl Alcohol Formulation
12	Relevant identified uses of th		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)

Not a hazardous substance or mixture.

#### 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)

No hazard pictogram, no signal word, no hazard statement(s), no precautionary statement(s) required

EUH210 Safety data sheet available on request.



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#### 2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative 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. EC-No. Index-No. Registration number	Classification	Concentration (% w/w)
Benzyl alcohol	100-51-6 202-859-9 603-057-00-5	Acute Tox. 4; H302 Acute Tox. 4; H332 Eye Irrit. 2; H319	>= 1 - < 10

For explanation of abbreviations see section 16.

#### **SECTION 4: First aid measures**

Protection of first-aiders	:	No special precautions are necessary for first aid responders.
If inhaled	:	If inhaled, remove to fresh air. Get medical attention if symptoms occur.
In case of skin contact	:	Wash with water and soap as a precaution. Get medical attention if symptoms occur.
In case of eye contact	:	Flush eyes with water as a precaution. Get medical attention if irritation develops and persists.
If swallowed	:	If swallowed, DO NOT induce vomiting. Get medical attention if symptoms occur. Rinse mouth thoroughly with water.
I.2 Most important symptoms None known.	and	effects, both acute and delayed

#### **4.3 Indication of any immediate medical attention and special treatment needed** Treatment : Treat symptomatically and supportively.

#### **SECTION 5: Firefighting measures**

#### 5.1 Extinguishing media

Suitable extinguishing media : Water spray



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				Alcohol-resistant Carbon dioxide (C Dry chemical		
	Unsuita media	ble extinguishing	:	None known.		
5.2 S	pecial	hazards arising from	the	substance or mi	xture	
Ś					pustion products may be a hazard to health.	
	Hazardous combustion prod- ucts		:	Carbon oxides		
5.3 A	dvice f	or firefighters				
		protective equipment	:		ed breathing apparatus for firefighting if nec- onal protective equipment.	
	Specific ods	extinguishing meth-	:	cumstances and t Use water spray t	measures that are appropriate to local cir- he surrounding environment. o cool unopened containers. ged containers from fire area if it is safe to do	

#### **SECTION 6: Accidental release measures**

#### 6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions	:	Follow safe handling advice (see section 7) and personal pro- tective equipment recommendations (see section 8).

### 6.2 Environmental precautions

Environmental precautions	:	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. If spillage enters rivers or watercourses, inform the Environ-
		ment Agency (emergency telephone number 0800 807060).

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

Methods for cleaning up	:	Soak up with inert absorbent material. For large spills, provide dyking or other appropriate contain- ment to keep material from spreading. If dyked material can be pumped, store recovered material in appropriate container. Clean up remaining materials from spill with suitable absor- bent. Local or national regulations may apply to releases and dis-
		posal of this material, as well as those materials and items

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



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		mine which r Sections 13	the cleanup of releases. You will need to deter- egulations are applicable. and 15 of this SDS provide information regarding or national requirements.
	ence to other sections ons: 7, 8, 11, 12 and 13.		
SECTION	N 7: Handling and st	orage	
7.1 Preca	utions for safe handlir	ng	
Local Advic	nical measures /Total ventilation e on safe handling ene measures	CONTROLS. Use only with Handle in ac practice, bas sessment Take care to environment. If exposure to flushing syste place. When nated clothin The effective engineering of appropriate of	ring measures under EXPOSURE /PERSONAL PROTECTION section. In adequate ventilation. cordance with good industrial hygiene and safety ed on the results of the workplace exposure as- prevent spills, waste and minimize release to the o chemical is likely during typical use, provide eye ems and safety showers close to the working using do not eat, drink or smoke. Wash contami- g before re-use. e operation of a facility should include review of controls, proper personal protective equipment, degowning and decontamination procedures, giene monitoring, medical surveillance and the
7 2 Candi	tions for sofe stores		istrative controls.
Requ	tions for safe storage irements for storage and containers	: Keep in prop	erly labelled containers. Store in accordance with r national regulations.
Advid	e on common storage	: Do not store Strong oxidiz Gases	with the following product types: zing agents
-	fic end use(s)	<b>N</b> 1 1 7 1	
Spec	ific use(s)	: No data avai	lable

#### **SECTION 8: Exposure controls/personal protection**

#### 8.1 Control parameters

#### **Occupational Exposure Limits**

Contains no substances with occupational exposure limit values.

#### Derived No Effect Level (DNEL):





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	Substa	ince name	End Use	Exposure ro	outes	Potential health ef- fects	Value
	Benzyl	alcohol	Workers	Inhalation		Long-term systemic effects	22 mg/m3
			Workers	Inhalation		Acute systemic ef- fects	110 mg/m3
			Workers	Skin contac	t	Long-term systemic effects	8 mg/kg bw/day
			Workers	Skin contac	t	Acute systemic ef- fects	40 mg/kg bw/day
			Consumers	Inhalation		Long-term systemic effects	5.4 mg/m3
			Consumers	Inhalation		Acute systemic ef- fects	27 mg/m3
			Consumers	Skin contac	t	Long-term systemic effects	4 mg/kg bw/day
			Consumers	Skin contac	t	Acute systemic ef- fects	20 mg/kg bw/day
			Consumers	Ingestion		Long-term systemic effects	4 mg/kg bw/day
			Consumers	Ingestion		Acute systemic ef- fects	20 mg/kg bw/day

#### Predicted No Effect Concentration (PNEC):

Substance name	Environmental Compartment	Value
Benzyl alcohol	Fresh water	1 mg/l
	Marine water	0.1 mg/l
	Intermittent use/release	2.3 mg/l
	Sewage treatment plant	39 mg/l
	Fresh water sediment	5.27 mg/kg
	Marine sediment	0.527 mg/kg
	Soil	0.456 mg/kg

#### 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.

Containment technologies suitable for controlling compounds are required to control at source and to prevent migration of the compound to uncontrolled areas (e.g., open-face containment devices).

Minimize open handling.

#### 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



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Ма	aterial	: Chemical-resis	ant gloves
	marks and body protection	Additional body being performe suits) to avoid e	r laboratory coat. garments should be used based upon the task d (e.g., sleevelets, apron, gauntlets, disposable exposed skin surfaces. e degowning techniques to remove potentially
	ratory protection	: If adequate loca sure assessme ommended gui	al exhaust ventilation is not available or expo- nt demonstrates exposures outside the rec- delines, use respiratory protection. uld conform to BS EN 14387

#### **SECTION 9: Physical and chemical properties**

#### 9.1 Information on basic physical and chemical properties

information on basic physical	an	a chemical propert
Appearance Colour Odour Odour Threshold	:	Aqueous solution colourless No data available No data available
рН	:	No data available
Melting point/freezing point	:	No data available
Initial boiling point and boiling	:	No data available
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	:	No data available
Relative vapour density	:	No data available
Relative density	:	No data available
Density	:	1 g/cm <sup>3</sup>
Solubility(ies) Water solubility	:	soluble

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oct	rtition coefficient: n- anol/water to-ignition temperature composition temperature	<ul> <li>Not applicable</li> <li>No data available</li> <li>No data available</li> </ul>	
Ex	cosity Viscosity, kinematic plosive properties idizing properties	<ul> <li>No data available</li> <li>Not explosive</li> <li>The substance or mixture is not classified as oxidizing.</li> </ul>	
Fla	<b>er information</b> Immability (liquids) Ilecular weight rticle size	<ul> <li>No data available</li> <li>No data available</li> <li>Not applicable</li> </ul>	

#### **SECTION 10: Stability and reactivity**

### **10.1 Reactivity** Not classified as a reactivity hazard. **10.2 Chemical stability** Stable under normal conditions. **10.3 Possibility of hazardous reactions** Hazardous reactions : Can react with strong oxidizing agents. 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	:	Inhalation
exposure		Skin contact
		Ingestion
		Eye contact

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e toxicity			
lassified based on av	ailable	information.	
uct:			
e oral toxicity	:	Acute toxicity e Method: Calcul	stimate: > 2,000 mg/kg ation method
e inhalation toxicity	:	Acute toxicity e Exposure time: Test atmosphe Method: Calcul	4 h re: dust/mist
ponents:			
yl alcohol:			
oral toxicity	:	LD50 (Rat): 1,6	620 mg/kg
e inhalation toxicity	:	Exposure time: Test atmosphe	4 h
	06.04.2024 e toxicity lassified based on av <u>uct:</u> e oral toxicity e inhalation toxicity <u>ponents:</u> yl alcohol: e oral toxicity	06.04.2024 93 e toxicity lassified based on available <u>uct:</u> e oral toxicity : e inhalation toxicity : ponents: yl alcohol: e oral toxicity :	06.04.2024 9374198-00007 e toxicity lassified based on available information. uct: e oral toxicity : Acute toxicity e Method: Calcul e inhalation toxicity : Acute toxicity e Exposure time: Test atmosphe Method: Calcul ponents: yl alcohol: e oral toxicity : LD50 (Rat): 1,6 e inhalation toxicity : LC50 (Rat): > 4 Exposure time: Test atmosphe

#### Skin corrosion/irritation

Not classified based on available information.

#### Components:

#### Benzyl alcohol:

Species	: Rabbit
Method	: OECD Test Guideline 404
Result	: No skin irritation

#### Serious eye damage/eye irritation

Not classified based on available information.

#### **Components:**

#### Benzyl alcohol:

Species	:	Rabbit
Method	:	OECD Test Guideline 405
Result	:	Irritation to eyes, reversing within 21 days

#### Respiratory or skin sensitisation

#### Skin sensitisation

Not classified based on available information.

#### Respiratory sensitisation

Not classified based on available information.

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# **Benzyl Alcohol Formulation**

Components:         Benzyl alcohol:         Test Type       :: Maximisation Test         Exposure routes       :: Skin contact         Species       :: Guinea pig         Method       :: OECD Test Guideline 406         Result       :: negative         Gern cell mutagenicity         Not classified based on available information.         Components:         Benzyl alcohol:         Genotoxicity in vitro       : Test Type: Bacterial reverse mutation assay (AMES) Result: negative         Genotoxicity in vivo       : Test Type: Mammalian erythrocyte micronucleus test ( cytogenetic assay) Species: Mouse Application Route: Intraperitoneal injection Result: negative         Carcinogenicity       Not classified based on available information.         Species: Mouse Application Route       : Ingestion Result: negative         Species       : Mouse Application Route         Application Route       : Ingestion Result: negative         Result       : negative         Reproductive toxicity Result       : negative         Reproductive toxicity Result       : negative         Reproductive toxicity Result       : negative         Benzyl alcohol:       : Effects on fertility         : Test Type: Fertility/early embryonic development Species: Rat Application Route: Ingestion Result: negative	rsion	Revision Date: 06.04.2024		8 Number: 4198-00007	Date of last issue: 30.09.2023 Date of first issue: 27.08.2021
Test Type       :       Maximisation Test         Exposure routes       :       Skin contact         Species       :       Guinea pig         Method       :       OECD Test Guideline 406         Result       :       negative         Gern cell mutagenicity       Not classified based on available information.         Components:       Benzyl alcohol:         Genotoxicity in vitro       :       Test Type: Bacterial reverse mutation assay (AMES)         Result: negative       Genotoxicity in vitro       :         Genotoxicity in vivo       :       Test Type: Mammalian erythrocyte micronucleus test ( cytogenetic assay)         Species: Mouse       Application Route: Intraperitoneal injection Result: negative         Carcinogenicity       Not classified based on available information.         Components:       Benzyl alcohol:         Species       :       Mouse         Application Route       :       Ingestion         Exposure time       :       103 weeks         Method       :       OECD Test Guideline 451         Result       :       negative         Reproductive toxicity       Not classified based on available information.         Components:       Benzyl alcohol:         Effects on	Com	ponents:			
Test Type       :       Maximisation Test         Exposure routes       :       Skin contact         Species       :       Guinea pig         Method       :       OECD Test Guideline 406         Result       :       negative         Gern cell mutagenicity       Not classified based on available information.         Components:       Benzyl alcohol:         Genotoxicity in vitro       :       Test Type: Bacterial reverse mutation assay (AMES)         Result: negative       Genotoxicity in vitro       :         Genotoxicity in vivo       :       Test Type: Mammalian erythrocyte micronucleus test ( cytogenetic assay)         Species: Mouse       Application Route: Intraperitoneal injection Result: negative         Carcinogenicity       Not classified based on available information.         Components:       Benzyl alcohol:         Species       :       Mouse         Application Route       :       Ingestion         Exposure time       :       103 weeks         Method       :       OECD Test Guideline 451         Result       :       negative         Reproductive toxicity       Not classified based on available information.         Components:       Benzyl alcohol:         Effects on	Benz	yl alcohol:			
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Benzyl alcohol:         Genotoxicity in vitro       : Test Type: Bacterial reverse mutation assay (AMES) Result: negative         Genotoxicity in vivo       : Test Type: Mammalian erythrocyte micronucleus test ( cytogenetic assay) Species: Mouse Application Route: Intraperitoneal injection Result: negative         Carcinogenicity         Not classified based on available information.         Components:         Benzyl alcohol:         Species       : Mouse Application Route         Application Route       : Ingestion Exposure time         Exposure time       : 103 weeks Method         Method       : OECD Test Guideline 451 Result         Result       : negative         Reproductive toxicity Not classified based on available information.         Components:         Benzyl alcohol:         Effects on fertility       : Test Type: Fertility/early embryonic development Species: Rat Application Route: Ingestion Result: negative Remarks: Based on data from similar materials         Effects on foetal develop- ment       : Test Type: Embryo-foetal development Species: Mouse Application Route: Ingestion			ilable ir	formation.	
Genotoxicity in vitro       : Test Type: Bacterial reverse mutation assay (AMES) Result: negative         Genotoxicity in vivo       : Test Type: Mammalian erythrocyte micronucleus test ( cytogenetic assay) Species: Mouse Application Route: Intraperitoneal injection Result: negative         Carcinogenicity       Not classified based on available information.         Components:       Benzyl alcohol:         Species       : Mouse Application Route         Application Route       : Ingestion Exposure time         Exposure time       : 103 weeks Method         Method       : OECD Test Guideline 451 Result         Reproductive toxicity         Not classified based on available information.         Components:         Benzyl alcohol:         Effects on fertility       : Test Type: Fertility/early embryonic development Species: Rat Application Route: Ingestion Result: negative Remarks: Based on data from similar materials         Effects on foetal develop- ment       : Test Type: Embryo-foetal development Species: Mouse Application Route: Ingestion	Com	ponents:			
Genotoxicity in vitro       :       Test Type: Bacterial reverse mutation assay (AMES) Result: negative         Genotoxicity in vivo       :       Test Type: Mammalian erythrocyte micronucleus test ( cytogenetic assay) Species: Mouse Application Route: Intraperitoneal injection Result: negative         Carcinogenicity       Not classified based on available information.         Components:       Benzyl alcohol:         Species       :       Mouse         Application Route       :       Ingestion         Exposure time       :       103 weeks         Method       :       OECD Test Guideline 451         Result       :       negative         Reproductive toxicity       Not classified based on available information.         Components:       Benzyl alcohol:         Result       :       negative         Reproductive toxicity       Not classified based on available information.         Components:       Benzyl alcohol:         Effects on fertility       :       Test Type: Fertility/early embryonic development Species: Rat Application Route: Ingestion Result: negative Remarks: Based on data from similar materials         Effects on foetal develop- ment       :       Test Type: Embryo-foetal development Species: Mouse Application Route: Ingestion	Benz	vl alcohol:			
cytogenetic assay)         Species: Mouse         Application Route: Intraperitoneal injection         Result: negative         Carcinogenicity         Not classified based on available information.         Components:         Benzyl alcohol:         Species       : Mouse         Application Route       : Ingestion         Exposure time       : 103 weeks         Method       : OECD Test Guideline 451         Result       : negative         Reproductive toxicity         Not classified based on available information.         Components:         Benzyl alcohol:         Effects on fertility       : Test Type: Fertility/early embryonic development Species: Rat Application Route: Ingestion Result: negative         Remarks: Based on data from similar materials         Effects on foetal develop-ment ment       : Test Type: Embryo-foetal development Species: Mouse Application Route: Ingestion		-			
Not classified based on available information. Components: Benzyl alcohol: Species : Mouse Application Route : Ingestion Exposure time : 103 weeks Method : OECD Test Guideline 451 Result : negative Reproductive toxicity Not classified based on available information. Components: Benzyl alcohol: Effects on fertility : Test Type: Fertility/early embryonic development Species: Rat Application Route: Ingestion Result: negative Remarks: Based on data from similar materials Effects on foetal develop- ment : Test Type: Embryo-foetal development Species: Mouse Application Route: Ingestion	Geno	toxicity in vivo		cytogenetic ass Species: Mouse Application Rou	ay) e ite: Intraperitoneal injection
Benzyl alcohol:         Species       : Mouse         Application Route       : Ingestion         Exposure time       : 103 weeks         Method       : OECD Test Guideline 451         Result       : negative         Reproductive toxicity         Not classified based on available information.         Components:         Benzyl alcohol:         Effects on fertility       : Test Type: Fertility/early embryonic development Species: Rat Application Route: Ingestion Result: negative Remarks: Based on data from similar materials         Effects on foetal development       : Test Type: Embryo-foetal development Species: Mouse Application Route: Ingestion	Not c	lassified based on ava	ilable ir	oformation.	
Species       : Mouse         Application Route       : Ingestion         Exposure time       : 103 weeks         Method       : OECD Test Guideline 451         Result       : negative         Reproductive toxicity         Not classified based on available information.         Components:         Benzyl alcohol:         Effects on fertility       : Test Type: Fertility/early embryonic development Species: Rat Application Route: Ingestion Result: negative Remarks: Based on data from similar materials         Effects on foetal development       : Test Type: Embryo-foetal development Species: Mouse Application Route: Ingestion					
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Components:Benzyl alcohol:Effects on fertility: Test Type: Fertility/early embryonic development Species: Rat Application Route: Ingestion Result: negative Remarks: Based on data from similar materialsEffects on foetal develop- ment: Test Type: Embryo-foetal development Species: Mouse Application Route: Ingestion	Repr	oductive toxicity			
Benzyl alcohol:Effects on fertility: Test Type: Fertility/early embryonic development Species: Rat Application Route: Ingestion Result: negative Remarks: Based on data from similar materialsEffects on foetal develop- ment: Test Type: Embryo-foetal development Species: Mouse Application Route: Ingestion	Not c	lassified based on ava	ilable ir	formation.	
Effects on fertility: Test Type: Fertility/early embryonic development Species: Rat Application Route: Ingestion Result: negative Remarks: Based on data from similar materialsEffects on foetal develop- ment: Test Type: Embryo-foetal development Species: Mouse Application Route: Ingestion	Com	ponents:			
ment Species: Mouse Application Route: Ingestion				Species: Rat Application Rou Result: negative	ite: Ingestion
		ts on foetal develop-		Species: Mouse Application Rou	e ite: Ingestion

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#### STOT - single exposure

Not classified based on available information.

#### STOT - repeated exposure

Not classified based on available information.

#### **Repeated dose toxicity**

#### Components:

#### Benzyl alcohol:

Species	: Rat
NOAEL	: 1.072 mg/l
Application Route	: inhalation (dust/mist/fume)
Exposure time	: 28 Days
Method	: OECD Test Guideline 412

#### Aspiration toxicity

Not classified based on available information.

### **SECTION 12: Ecological information**

#### 12.1 Toxicity

#### Components:

#### **Benzyl alcohol:**

Denizyr aloonon.		
Toxicity to fish	:	LC50 (Pimephales promelas (fathead minnow)): 460 mg/l Exposure time: 96 h
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): 230 mg/l Exposure time: 48 h Method: OECD Test Guideline 202
Toxicity to algae/aquatic plants	:	EC50 (Pseudokirchneriella subcapitata (green algae)): 770 mg/l Exposure time: 72 h Method: OECD Test Guideline 201
		NOEC (Pseudokirchneriella subcapitata (green algae)): 310 mg/l Exposure time: 72 h Method: OECD Test Guideline 201
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)	:	NOEC: 51 mg/l Exposure time: 21 d Species: Daphnia magna (Water flea) Method: OECD Test Guideline 211

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12.2 Pers	istence and degradab	lity	
Com	ponents:		
Benz	yl alcohol:		
Biodegradability			lily biodegradable. on: 92 - 96 % le: 14 d
12.3 Bioa	ccumulative potential		
Com	ponents:		
Partit	<b>yl alcohol:</b> ion coefficient: n- ol/water	: log Pow: 1.0	5
	l <b>ity in soil</b> ata available		
12.5 Resu	Ilts of PBT and vPvB a	issessment	
Prod	uct:		
Asse	ssment	to be either p	ce/mixture contains no components considered persistent, bioaccumulative and toxic (PBT), or nt and very bioaccumulative (vPvB) at levels of er.
12.6 Othe	r adverse effects		
<u>Prod</u>	uct:		
Endo tial	crine disrupting poten-	ered to have	ce/mixture does not contain components consid- endocrine disrupting properties for environment UK REACH Article 57(f).
SECTION	N 13: Disposal consi	derations	
12 1 Wast	te treatment methods		
Produ		· Dispose of in	accordance with local regulations.
FIGU		According to are not produ Waste codes discussion w	the European Waste Catalogue, Waste Codes uct specific, but application specific. should be assigned by the user, preferably in ith the waste disposal authorities.

		Do not dispose of waste into sewer.
Contaminated packaging	:	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

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ADN		: Not regulated as a dangerous good	
ADR		: Not regulated as a dangerous good	
RID		: Not regulated as a dangerous good	
IMDG	1	: Not regulated as a dangerous good	
IATA		: Not regulated as a dangerous good	
	roper shipping name		
-			
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	
14.3 Trans	sport hazard class(es		
ADN		: Not regulated as a dangerous good	
ADR		: Not regulated as a dangerous good	
RID		: Not regulated as a dangerous good	
IMDG	ì	: Not regulated as a dangerous good	
ΙΑΤΑ		: Not regulated as a dangerous good	
14.4 Pack	ing group		
ADN		: Not regulated as a dangerous good	
ADR		: Not regulated as a dangerous good	
RID		: Not regulated as a dangerous good	
IMDG	ì	: Not regulated as a dangerous good	
ΙΑΤΑ	(Cargo)	: Not regulated as a dangerous good	
ΙΑΤΑ	(Passenger)	: Not regulated as a dangerous good	
-	ronmental hazards		
	egulated as a dangero		
-	ial precautions for us pplicable	r	
	•	to Annex II of Marpol and the IBC Code	
Rema	arks	: Not applicable for product as supplied.	

# 15.1 Safety, health and environmental regulations/legislation specific for the substance or mix-ture

Relevant EU provisions transposed through retained EU law

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



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	ACH List of restriction	s (Anney 17)		:	Not applicable	
		substances of very hig	h	÷	Not applicable	
concei	rn (SVHC) for Authoris	ation				
		tants Regulations (reta		:	Not applicable	
Regula ain)	ation (EU) 2019/1021 a	as amended for Great E	Brit-			
	ation (EC) No 1005/200	09 on substances that of	de-	:	Not applicable	
•	he ozone layer					
	UK REACH List of substances subject to authorisation			:	Not applicable	
(Anne:	/				<b>N</b> ( ) ( ) ( )	
	GB Export and import of hazardous chemicals - Prior Informed Consent (PIC) Regulation				Not applicable	
	, , <b>,</b>		- (00)			
Contro	of Major Accident Ha	zards Regulations 201	5 (COI	MA	H)	
		Not applicable				

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

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 H319 H332		:	Harmful if swallowed. Causes serious eye irritation. Harmful if inhaled.

#### Full text of other abbreviations

Acute Tox.	:	Acute toxicity
Eye Irrit.	:	Eye irritation

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 car-



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rying 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/

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.

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