

Version	Revision Date:	SDS Number:	Date of last issue: 06.04.2024
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### SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1	Product identifier		
	Trade name	:	Interferon Alfa-2b Liquid Formulation
1.2	Relevant identified uses of t	he s	ubstance or mixture and uses advised against
	Use of the Sub- stance/Mixture	:	Pharmaceutical
	Recommended restrictions on use	:	Not applicable
1.3	Details of the supplier of the	saf	ety data sheet
	Company	:	MSD
			Piercetown
			A86 HD21 Dunboyne, Ireland
	Telephone	:	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)

Reproductive toxicity	, Category 1B
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Specific target organ toxicity - repeated exposure, Category 2

#### 2.2 Label elements

H360FD: May damage fertility. May damage the unborn child. H373: May cause damage to organs through prolonged or repeated exposure.

## Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms Signal word Danger

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H360FD

Hazard statements

May damage fertility. May damage the unborn

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878



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		H373	child. May cause damage to organs through prolonged or repeated exposure.
Precau	utionary statements	: Prevention	:
		P201 P280	Obtain special instructions before use. Wear protective gloves/ protective clothing/ eye protection/ face protection.
		Response:	
		P308 + P31	3 IF exposed or concerned: Get medical advice/ attention.
		Storage:	
		P405	Store locked up.

### Hazardous components which must be listed on the label:

Interferon alfa-2b

### 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.

Ecological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Toxicological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

## **SECTION 3: Composition/information on ingredients**

#### 3.2 Mixtures

#### Components

Components			
Chemical name	CAS-No. EC-No. Index-No. Registration number	Classification	Concentration (% w/w)
m-Cresol	108-39-4 203-577-9 604-004-00-9	Acute Tox. 3; H301 Acute Tox. 3; H311 Skin Corr. 1B; H314 Eye Dam. 1; H318 Aquatic Chronic 3; H412 EUH071 Acute toxicity esti-	>= 0.1 - < 0.25

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according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878



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Interfe	eron alfa-2b	98530-12-2	mate Acute oral toxicity: 121 mg/kg Acute dermal toxicity: 301 mg/kg Skin Irrit. 2; H315 Repr. 1B; H360FD STOT RE 2; H373 (Blood, Bone mar- row) 	>= 0.001 - < 0.1		

For explanation of abbreviations see section 16.

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

### 4.1 Description of first aid measures

General advice	:	In the case of accident or if you feel unwell, seek medical ad- vice 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. Get medical attention.
In case of skin contact	:	In case of contact, immediately flush skin with soap and plenty of water. Remove contaminated clothing and shoes. Get medical attention. Wash clothing before reuse. Thoroughly clean shoes before reuse.
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. Rinse mouth thoroughly with water.

### 4.2 Most important symptoms and effects, both acute and delayed



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F	Risks		:		rtility. May damage the unborn child. age to organs through prolonged or repeated
4.3 In	dicatio	on of any immediate	mec	lical attention a	nd special treatment needed
Т	Freatm	ent	:	Treat symptoma	tically and supportively.
SEC	TION	5: Firefighting meas	sur	es	
5.1 Ex	xtingu	ishing media			
S	Suitable	e extinguishing media	:	Water spray Alcohol-resistan Carbon dioxide Dry chemical	
	Jnsuita nedia	ble extinguishing	:	None known.	
5.2 Sj	pecial	hazards arising from	the	substance or n	nixture
	Specific ighting	c hazards during fire-	:	Exposure to cor	nbustion products may be a hazard to health.
	Hazard ucts	ous combustion prod-	:	No hazardous c	ombustion products are known
5.3 A	dvice	for firefighters			
	Special or firefi	protective equipment ghters	:		re, wear self-contained breathing apparatus. otective equipment.
	Specific ods	c extinguishing meth-	:	cumstances and Use water spray	ng measures that are appropriate to local cir- I the surrounding environment. I 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 procesutions		Avoid release to the environment	

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).



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			pose of contaminated wash water. es should be advised if significant spillages tained.
6.3 Metho	ds and material for o	containment and clea	aning up
Meth	ods for cleaning up	For large spills ment to keep r be pumped, st Clean up rema bent. Local or natior posal of this m employed in th mine which ree Sections 13 ar	nert absorbent material. s, provide dyking or other appropriate contain- material from spreading. If dyked material can ore recovered material in appropriate container. aining materials from spill with suitable absor- nal regulations may apply to releases and dis- material, as well as those materials and items ne cleanup of releases. You will need to deter- gulations are applicable. nd 15 of this SDS provide information regarding r national 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

Technical measures	<ul> <li>See Engineering measures under EXPOSURE CONTROLS/PERSONAL PROTECTION section.</li> </ul>
Local/Total ventilation	: If sufficient ventilation is unavailable, use with local exhaust ventilation.
Advice on safe handling	<ul> <li>Do not get on skin or clothing.</li> <li>Do not breathe mist or vapours.</li> <li>Do not swallow.</li> <li>Avoid contact with eyes.</li> <li>Handle in accordance with good industrial hygiene and safety practice, based on the results of the workplace exposure assessment</li> <li>Keep container tightly closed.</li> <li>Take care to prevent spills, waste and minimize release to the environment.</li> </ul>
Hygiene measures	<ul> <li>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. Wash contaminated clothing before re-use.</li> <li>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 use of administrative controls.</li> </ul>
7.2 Conditions for safe storage,	including any incompatibilities

Requirements for storage	:	Keep in properly labelled containers. Store locked up. Keep
areas and containers		tightly closed. Store in accordance with the particular national



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		regulations.	
Advice	e on common storage	<ul> <li>Do not store with the following product types: Strong oxidizing agents</li> <li>Self-reactive substances and mixtures</li> <li>Organic peroxides</li> <li>Explosives</li> <li>Gases</li> </ul>	
•	<b>c end use(s)</b> ic use(s)	: No data available	e

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

### 8.1 Control parameters

### Occupational Exposure Limits

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis			
m-Cresol	108-39-4	OELV - 8 hrs (TWA)	5 ppm 22 mg/m3	IE OEL			
	Further information: Substances which have the capacity to penetrate intact skin when they come in contact with it, and be absorbed into the body						
Interferon alfa-2b	98530-12-2	TWA	0.2 μg/m3 (OEB 5)	Internal			
		Wipe limit	2 µg/100 cm²	Internal			

## Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006

Substance name	End Use	Exposure routes	Potential health ef- fects	Value
m-Cresol	Workers	Inhalation	Long-term systemic effects	3.5 mg/m3
	Workers	Inhalation	Acute systemic ef- fects	343 mg/m3
	Workers	Skin contact	Long-term systemic effects	0.5 mg/kg bw/day
	Workers	Skin contact	Acute systemic ef- fects	1.47 mg/kg bw/day
	Consumers	Inhalation	Long-term systemic effects	0.75 mg/m3
	Consumers	Inhalation	Acute systemic ef- fects	222 mg/m3
	Consumers	Skin contact	Long-term systemic effects	0.25 mg/kg bw/day
	Consumers	Skin contact	Acute systemic ef- fects	0.74 mg/kg bw/day
	Consumers	Ingestion	Long-term systemic effects	0.25 mg/kg bw/day
	Consumers	Ingestion	Acute systemic ef- fects	0.74 mg/kg bw/day

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### Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006

Substance name	Environmental Compartment	Value
m-Cresol	Fresh water	0.1 mg/l
	Marine water	0.01 mg/l
	Intermittent use/release	0.076 mg/l
	Sewage treatment plant	1.14 mg/l
	Fresh water sediment	0.71 mg/kg
	Marine sediment	0.071 mg/kg
	Soil	0.0831 mg/kg

### 8.2 Exposure controls

### **Engineering measures**

Use closed processing systems or containment technologies to control at source (e.g., glove boxes/isolators) and to prevent leakage of compounds into the workplace.

All engineering controls should be implemented by facility design and operated in accordance with GMP principles to protect products, workers, and the environment.

No open handling permitted.

Totally enclosed processes and materials transport systems are required.

Operations require the use of appropriate containment technology designed to prevent leakage of compounds into the workplace.

### 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	
Remarks Skin and body protection	:	Consider double gloving. Work uniform or laboratory coat. Additional body garments should be used based upon the task being performed (e.g., sleevelets, apron, gauntlets, dis- posable suits) to avoid exposed skin surfaces. Use appropriate degowning techniques to remove potentially contaminated clothing.	
Respiratory protection	:	No personal respiratory protective equipment normally re- quired.	

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

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

Physical state	:	liquid
Colour	:	colourless
Odour	:	No data available

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	Odour T	Threshold	:	No data available	
	Melting	point/freezing point	:	No data available	
	Initial bo range	oiling point and boiling	:	No data available	
	Flamma	ability (solid, gas)	:	Not applicable	
	Flamma	ability (liquids)	:	No data available	
		explosion limit / Upper bility limit	:	No data available	
		explosion limit / Lower bility limit	:	No data available	
	Flash p	oint	:	No data available	
	Auto-ig	nition temperature	:	No data available	
	Decom	position temperature	:	No data available	
	рН		:	6.5 - 8	
	Viscosit Visc	ty osity, kinematic	:	No data available	
	Solubili Wate	ty(ies) er solubility	:	No data available	
	Partition octanol	n coefficient: n- /water	:	Not applicable	
	Vapour	pressure	:	No data available	
	Relative	e density	:	No data available	
	Density		:	No data available	
	Relative	e vapour density	:	No data available	
		characteristics icle size	:	Not applicable	
9.2		formation			
	Explosi		:	Not explosive	
	Oxidizir	ng properties	:	The substance or	mixture is not classified as oxidizing.



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Evap	oration rate	:	No data availa	able
Mole	cular weight	:	Not applicable	)
SECTION	N 10: Stability and	reactiv	/ity	
10.1 Read	ctivity			
Not c	lassified as a reactivit	y hazar	d.	
	<b>nical stability</b> e under normal condit	ions.		
10.3 Poss	sibility of hazardous	reactio	ons	
Haza	rdous reactions	:	Can react with	n strong oxidizing agents.
10.4 Cond	ditions to avoid			
Cond	litions to avoid	:	None known.	
10.5 Inco	mpatible materials			
Mate	rials to avoid	:	Oxidizing age	nts
No ha	ardous decomposition azardous decompositi N 11: Toxicological	on proc	lucts are known	ı.
	-			egulation (EC) No 1272/2008
	mation on likely routes		Inhalation Skin contact Ingestion Eye contact	
	<b>e toxicity</b> lassified based on ava	ailable i	nformation.	
Prod	uct:			
	e oral toxicity	:	Acute toxicity e Method: Calcu	estimate: > 2,000 mg/kg lation method
<b>A</b> - 1			Acute toxicity	estimate: > 2,000 mg/kg
Acute	e dermal toxicity	:	Method: Calcu	
	e dermal toxicity ponents:	:		
Com		:		



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Acute	e inhalation toxicity	: Assessn	nent: Corrosive to the respiratory tract.
Acute	e dermal toxicity	: LD50 (R Remarks	abbit): 301 mg/kg s: Based on data from similar materials
	corrosion/irritation lassified based on avai	ble informatio	on.
Com	ponents:		
<b>m-Cr</b> Spec Resu	ies	: Rabbit : Corrosiv	e after 3 minutes to 1 hour of exposure
<b>Inter</b> Spec Resu		: Rat : Skin irrit	ation
	ous eye damage/eye ii lassified based on avai		on.
<u>Com</u>	ponents:		
m-Cr			
Spec Resu		: Rabbit : Irreversi	ole effects on the eye
Inter	feron alfa-2b:		
Spec Rema		: Rabbit : slight irri	tation
Resp	iratory or skin sensit	ation	
	sensitisation lassified based on avai	ble informatio	on.
-	<b>iratory sensitisation</b> lassified based on avai	ble informatio	on.
	n cell mutagenicity lassified based on avai	ble informatio	on.
Com	ponents:		
<b>m-Cr</b> Geno	esol: otoxicity in vitro	: Test Typ Method: Result: p	e: Chromosome aberration test in vitro OECD Test Guideline 473 positive
			e: Bacterial reverse mutation assay (AMES) OECD Test Guideline 471



ersion I 1	Revision Date: 28.09.2024		S Number: 280-00021	Date of last issue: 06.04.2024 Date of first issue: 07.01.2015
			Result: negativ	e
Genot	toxicity in vivo	:	cytogenetic tes Species: Mous Application Ro	ute: Ingestion ) Test Guideline 475
Interf	eron alfa-2b:			
Genot	toxicity in vitro	:	Test Type: Chr Result: negativ	romosome aberration test in vitro re
			Test Type: Bac Result: negativ	cterial reverse mutation assay (AMES) re
Genot	toxicity in vivo	:	Test Type: Mic Species: Mous Result: negativ Remarks: Base	e
Not cl	nogenicity assified based on avai ponents: asol:	ilable	information.	
Speci		:	Mouse, males	
Applic	ation Route	:	Ingestion	
	sure time	:	105 weeks	
Resul Rema		:	equivocal Based on data	from similar materials
Speci	es	:	Mouse, female	
	ation Route	:	Ingestion	
	sure time	:	106 - 107 weel	<s< td=""></s<>
Resul Rema		:	positive Based on data	from similar materials
Carcir ment	nogenicity - Assess-	:	Weight of evide cinogen	ence does not support classification as a car-
•	oductive toxicity lamage fertility. May da	amad	e the unborn ch	ild.
	oonents:			
m-Cre	esol:			
	s on fertility	:	Test Type: Two Species: Rat Application Ro Result: negativ	



ersion 11	Revision Date: 28.09.2024		0S Number: 280-00021	Date of last issue: 06.04.2024 Date of first issue: 07.01.2015
Effects on foetal develop- ment		:	Test Type: Pre Species: Rat Application Ro Result: negativ	
Interf	eron alfa-2b:			
Effect	s on fertility	:	Species: Monk Fertility: LOAE	L: 3.8 µg/kg ual irregularities
Effect ment	s on foetal develop-	:	Species: Monk	I Toxicity: LOAEL: 3.8 μg/kg body weight
Repro sessn	oductive toxicity - As- nent	:	May damage f	ertility. May damage the unborn child.
Not cl	- single exposure assified based on avai		information.	
	- repeated exposure cause damage to organ		ough prolonged	or repeated exposure.
Comp	ponents:			
Interf	eron alfa-2b:			
	et Organs ssment	:	Blood, Bone m May cause dar exposure.	arrow mage to organs through prolonged or repeated
Repe	ated dose toxicity			
<u>Com</u> p	oonents:			
m-Cre	esol:			
	EL cation Route sure time	:	Rat 150 mg/kg Ingestion 13 Weeks OECD Test Gu	uideline 408
Interf	eron alfa-2b:			
	EL cation Route sure time	:	Monkey 0.095 mg/kg Intramuscular 1 Months No significant a	adverse effects were reported

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Species NOAEL Application Route Exposure time Remarks		Rat 0.38 mg/kg Subcutaneous 3 Months No significant adverse effects were reported		
	EL cation Route sure time	Mouse 0.076 mg/kg Intraperitoneal 9 d No significant ad	verse effects were reported	
Expo	EL cation Route sure time et Organs	Monkey 0.38 mg/kg Intramuscular 3 Months Blood, Bone mar Significant toxicit	row y observed in testing	

### Aspiration toxicity

Not classified based on available information.

### 11.2 Information on other hazards

### Endocrine disrupting properties

#### Product:

Assessment

: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

#### Experience with human exposure

### Components:

### Interferon alfa-2b:

Skin contact

: Symptoms: The most common side effects are:, flu-like symptoms, Fever, chills, Fatigue

## **SECTION 12: Ecological information**

### 12.1 Toxicity

Components:

### m-Cresol:

Toxicity to fish	:	LC50 (Oncorhynchus mykiss (rainbow trout)): 8.6 mg/l Exposure time: 96 h
Toxicity to daphaia and other		EC50 (Daphaia puloy (Water flea)): > 00.5 mg/l



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i	aquatic	: invertebrates		Exposure time: 48	3 h
	Toxicity icity)	y to fish (Chronic tox-	:	NOEC: 1.35 mg/l Exposure time: 32 Species: Pimepha Remarks: Based	2 d ales promelas (fathead minnow) on data from similar materials
i		y to daphnia and other invertebrates (Chron- ity)	:		1 d magna (Water flea) on data from similar materials
12.2	Persis	tence and degradabil	ity		
	Compo	onents:			
	m-Cres	sol:			
	Biodeg	radability	:	Result: Readily bi Biodegradation: 9	
				Exposure time: 28	
12.3	Bioaco	cumulative potential			
	Compo	onents:			
	m-Cres	sol:			
	Bioacc	umulation	:		us idus (Golden orfe) factor (BCF): 17 - 20
	Partitio octano	n coefficient: n- I/water	:	log Pow: 1.96	
		<b>ty in soil</b> a available			
12.5	Result	s of PBT and vPvB as	sse	ssment	
	Produc	<u>ct:</u>			
	Assess	sment	:	to be either persis	ixture contains no components considered stent, bioaccumulative and toxic (PBT), or ad very bioaccumulative (vPvB) at levels of
12.6	Endoc	rine disrupting prope	rtie	S	
	Produc	<u>ct:</u>			
	Assess	sment	:	ered to have endo REACH Article 57	ixture does not contain components consid- ocrine disrupting properties according to 7(f) or Commission Delegated regulation or Commission Regulation (EU) 2018/605 at higher.



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## 12.7 Other adverse effects

No data available

### **SECTION 13:** Disposal considerations

13.1 Waste treatment methods	
Product	<ul> <li>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. Do not dispose of waste into sewer.</li> </ul>
Contaminated packaging	<ul> <li>Empty containers should be taken to an approved waste han- dling site for recycling or disposal.</li> <li>If not otherwise specified: Dispose of as unused product.</li> </ul>

## **SECTION 14: Transport information**

### 14.1 UN number or ID 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		
	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	Transport 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	:	Not regulated as a dangerous good
	ΙΑΤΑ	:	Not regulated as a dangerous good
14.4	Packing group		
	ADN	:	Not regulated as a dangerous good
	ADR	:	Not regulated as a dangerous good
	RID	:	Not regulated as a dangerous good



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IMDG		: Not regulated a	s a dangerous good	
IATA (Cargo)		: Not regulated as a dangerous good		
IATA (Passenger)		: Not regulated as a dangerous good		
14.5 Environmental hazards				
Not re	egulated as a dangerou	s good		
<b>14.6 Special precautions for use</b> Not applicable		er		
147 Moriti	imo transport in bulk	according to IMO in	ctrumonto	

### 14.7 Maritime transport in bulk according to IMO instruments

Remarks : Not applicable for product as supplied.

### **SECTION 15: Regulatory information**

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

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII)	:	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- tions in corresponding Regulation to determine whether an entry is appli- cable to the placing on the market or not.
REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59).	:	Not applicable
Regulation (EC) on substances that deplete the ozone layer	:	Not applicable
Regulation (EU) 2019/1021 on persistent organic pollu- tants (recast)	:	Not applicable
Regulation (EU) No 649/2012 of the European Parlia- ment and the Council concerning the export and import of dangerous chemicals	:	Not applicable
REACH - List of substances subject to authorisation (Annex XIV)	:	Not applicable
Seveso III: Directive 2012/18/EU of the European Parlian	nent	t and of the Council on the control of

major-accident hazards involving dangerous substances.

Not applicable

### Other regulations:

Take note of Directive 92/85/EEC regarding maternity protection or stricter national regulations, where applicable.

Take note of Directive 94/33/EC on the protection of young people at work or stricter national



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regula	ations, where applicable		
-			the following inventories:
DSL		: not determined	
IECS	С	: not determined	
A Chemica	nical safety assessme al Safety Assessment ha	as not been carried out	t
	information	: Items where char	nges have been made to the previous version the body of this document by two vertical
Full t	ext of H-Statements		
H301 H311 H314 H315 H318 H360 H373	FD	<ul> <li>Causes skin irrita</li> <li>Causes serious e</li> <li>May damage fert</li> </ul>	with skin. kin burns and eye damage. ition.
H412 EUH0			ic life with long lasting effects. respiratory tract.
Full t	ext of other abbreviati	ons	
Eye E Repr. Skin ( Skin I STOT IE OE	tic Chronic Dam. Corr. rrit. RE L	<ul> <li>Serious eye dam</li> <li>Reproductive tox</li> <li>Skin corrosion</li> <li>Skin irritation</li> <li>Specific target or</li> <li>Ireland. List of Ch pational Exposur- and 2</li> </ul>	icity gan toxicity - repeated exposure nemical Agents and Carcinogens with Occu- e Limit Values - Code of Practice, Schedule 1
IE OE	EL / OELV - 8 hrs (TWA)	<ul> <li>Cccupational exp</li> </ul>	oosure limit value (8-hour reference period)

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 as-



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sociated 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

#### Further information

Classification of the mixture:	Classification procedure:
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 of the mixture:		Classification pro
Repr. 1B	H360FD	Calculation method
STOT RE 2	H373	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.

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