

Version	Revision Date:	SDS Number:	Date of last issue: 20.03.2023
2.1	26.09.2023	21547-00023	Date of first issue: 14.10.2014

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

1.1	Product identifier Trade name		Suvorexant Formulation
1.2	Relevant identified uses of the	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 sa	afe	ety data sheet
	Company :		MSD
	1 3		Kilsheelan
			Clonmel Tipperary, IE
	Telephone :		353-51-601000
	E-mail address of person :		EHSDATASTEWARD@msd.com

1.4 Emergency telephone number

responsible for the SDS

+1-908-423-6000

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)					
Long-term (chronic) aquatic hazard, Cat-	H412: Harmful to aquatic life with long lasting ef-				
egory 3	fects.				

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)			
Hazard statements	:	H412	Harmful to aquatic life with long lasting effects.
Precautionary statements	:	Preven	tion:

P273 Avoid release to the environment.

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.



Version	Revision Date:	SDS Number:	Date of last issue: 20.03.2023
2.1	26.09.2023	21547-00023	Date of first issue: 14.10.2014

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.

Dust contact with the eyes can lead to mechanical irritation. Contact with dust can cause mechanical irritation or drying of the skin. May form explosive dust-air mixture during processing, handling or other means.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Components

Chemical name	CAS-No. EC-No. Index-No. Registration number	Classification	Concentration (% w/w)
Suvorexant	1030377-33-3	STOT SE 3; H336 STOT RE 2; H373 (Central nervous system) Aquatic Acute 1; H400 Aquatic Chronic 2; H411 M-Factor (Acute aquatic toxicity): 1	>= 2,5 - < 10

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 advice immediately. When symptoms persist or in all cases of doubt seek medica 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 if symptoms occur.			



Suvorexant Formulation

Version 2.1	Revision Date: 26.09.2023		DS Number: 547-00023	Date of last issue: 20.03.2023 Date of first issue: 14.10.2014
In d	case of skin contact	:	Wash with water Get medical atter	and soap. ition if symptoms occur.
In o	case of eye contact	:	If in eyes, rinse w Get medical atter	ell with water. Ition if irritation develops and persists.
lf s	wallowed	:	Get medical atter	NOT induce vomiting. ation if symptoms occur. oughly with water.
4.2 Mos	at important symptoms a	nd e	effects, both acute	and delayed
Ris		:	Contact with dust the skin.	can cause mechanical irritation or drying of the eyes can lead to mechanical irritation.
4 3 Indi	cation of any immediate	me	dical attention and	d special treatment needed
	eatment	:		cally and supportively.
SECTION	ON 5: Firefighting mea	sur	es	
5.1 Exti	nguishing media			
Sui	itable extinguishing media	:	Water spray Alcohol-resistant Carbon dioxide (0 Dry chemical	
Un me	suitable extinguishing dia	:	None known.	
5.2 Spe	cial hazards arising from	n the	e substance or mi	xture
Sp	ecific hazards during fire- nting	:	Avoid generating concentrations, a potential dust exp	dust; fine dust dispersed in air in sufficient nd in the presence of an ignition source is a
Ha uct	zardous combustion prod- s	:	Carbon oxides Metal oxides	
5214	ice for firefighters			
	ecial protective equipment		In the event of fire	e, wear self-contained breathing apparatus.
	firefighters	•		tective equipment.
Sp od:	ecific extinguishing meth-	:	cumstances and Use water spray	g measures that are appropriate to local cir- the surrounding environment. to cool unopened containers. ged containers from fire area if it is safe to do



Version	Revision Date:	SDS Number:	Date of last issue: 20.03.2023
2.1	26.09.2023	21547-00023	Date of first issue: 14.10.2014

SECTION 6: Accidental release measures

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. Retain and dispose of contaminated wash water.

cannot be contained.

Local authorities should be advised if significant spillages

6.3 Methods and material for containment and cleaning up

Methods for cleaning up	:	Sweep up or vacuum up spillage and collect in suitable con- tainer for disposal. Avoid dispersal of dust in the air (i.e., clearing dust surfaces with compressed air). Dust deposits should not be allowed to accumulate on surfac- es, as these may form an explosive mixture if they are re- leased into the atmosphere in sufficient concentration. Local or national regulations may apply to releases and dis- posal of this material, as well as those materials and items employed in the cleanup of releases. You will need to deter- mine which regulations are applicable. Sections 13 and 15 of this SDS provide information regarding
		certain local or 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

	5
Technical measures	 Static electricity may accumulate and ignite suspended dust causing an explosion. Provide adequate precautions, such as electrical grounding and bonding, or inert atmospheres.
Local/Total ventilation	: Use only with adequate ventilation.
Advice on safe handling	 Ose only with adequate ventilation. Do not breathe dust. Do not swallow. Avoid contact with eyes. Avoid prolonged or repeated contact with skin. Handle in accordance with good industrial hygiene and safety practice, based on the results of the workplace exposure assessment
	Minimize dust generation and accumulation. Keep container closed when not in use.



Suvorexant Formulation

Version 2.1	Revision Date: 26.09.2023		DS Number: 547-00023	Date of last issue: 20.03.2023 Date of first issue: 14.10.2014					
Hygiene measures		:	 Keep away from heat and sources of ignition. Take precautionary measures against static discharges. Take care to prevent spills, waste and minimize release to the 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. Wash contaminated clothing before re-use. 						
			engineering contr appropriate dego	eration of a facility should include review of rols, proper personal protective equipment, wning and decontamination procedures, e monitoring, medical surveillance and the tive controls.					
7.2 Condit	ions for safe storage,	inc	uding any incom	patibilities					
•	rements for storage and containers	:	Keep in properly the particular nat	labelled containers. Store in accordance with ional regulations.					
Advice	e on common storage	:	Do not store with Strong oxidizing a	the following product types: agents					
7.3 Specifi	c end use(s)								
-	ic use(s)	:	No data available						

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational Exposure Limits	
Dust	5 mg/m3 Value type (Form of exposure): TWA (respirable dust) Basis: FOR-2011-12-06-1358

10 mg/m3 Value type (Form of exposure): TWA (total dust) Basis: FOR-2011-12-06-1358

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
Suvorexant	1030377- 33-3	TWA	14 µg/m3 (OEB 3)	Internal
		Wipe limit	140 μg/100 cm ²	Internal

8.2 Exposure controls

Engineering measures

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



Suvorexant Formulation

Version	Revision Date:	SDS Number:	Date of last issue: 20.03.2023
2.1	26.09.2023	21547-00023	Date of first issue: 14.10.2014

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	
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, disposable suits) to avoid exposed skin surfaces. Use appropriate degowning techniques to remove potentially contaminated clothing.
Respiratory protection :	If adequate local exhaust ventilation is not available or expo- sure assessment demonstrates exposures outside the rec- ommended guidelines, use respiratory protection. Equipment should conform to NS EN 143
Filter type :	Particulates type (P)

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state	:	powder
Colour	:	No data available
Odour	:	No data available
Odour Threshold	:	No data available
Melting point/freezing point	:	No data available
Initial boiling point and boiling range	:	No data available
Flammability (solid, gas)	:	May form explosive dust-air mixture during processing, han- dling or other means.
Flammability (liquids)	:	No data available
Upper explosion limit / Upper flammability limit	:	No data available

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



Suvorexant Formulation

Ver 2.1	sion	Revision Date: 26.09.2023		S Number: 547-00023	Date of last issue: 20.03.2023 Date of first issue: 14.10.2014
		explosion limit / Lower ability limit	:	No data available	9
	Flash p	point	:	Not applicable	
	Auto-ig	nition temperature	:	No data available	9
	Decom	position temperature	:	No data available	9
	рН		:	No data available	9
	Viscosi Visc	ty cosity, kinematic	:	Not applicable	
	Solubili Wat	ity(ies) er solubility	:	No data available)
	Partitio octanol	n coefficient: n- l/water	:	Not applicable	
	Vapour	· pressure	:	Not applicable	
	Relativ	e density	:	No data available	9
	Density	/	:	No data available	9
	Relativ	e vapour density	:	Not applicable	
		e characteristics ticle size	:	No data available	9
9.2	Other ir	nformation			
	Explosi	ives	:	Not explosive	
	Oxidizi	ng properties	:	The substance o	r mixture is not classified as oxidizing.
	Evapor	ation rate	:	Not applicable	
	Molecu	ılar weight	:	No data available	9

SECTION 10: Stability and reactivity

10.1 Reactivity

Not classified as a reactivity hazard.

10.2 Chemical stability

Stable under normal conditions.



Suvorexant Formulation

SECTION 11: To	e actions o avoid avoid e materials void lecomposition p s decomposition p	:	May form explos dling or other me	trong oxidizing agents. d sparks.
Hazardous re 10.4 Conditions to Conditions to 10.5 Incompatible Materials to a 10.6 Hazardous d No hazardous SECTION 11: To 11.1 Information of	e actions o avoid avoid e materials void lecomposition p s decomposition p	:	May form explos dling or other me Can react with st Heat, flames and	eans. trong oxidizing agents. d sparks.
Conditions to 10.5 Incompatible Materials to a 10.6 Hazardous d No hazardous SECTION 11: To 11.1 Information of	avoid e materials avoid lecomposition p s decomposition p	:		
 10.5 Incompatible Materials to a 10.6 Hazardous d No hazardous SECTION 11: To 11.1 Information of Information of 	e materials woid lecomposition p s decomposition p	:		
Materials to a 10.6 Hazardous d No hazardous SECTION 11: To 11.1 Information of Information of	void lecomposition p s decomposition p	:		
10.6 Hazardous d No hazardous SECTION 11: To 11.1 Information of	lecomposition p s decomposition p	:		
No hazardous SECTION 11: To 11.1 Information of Information of	s decomposition p		Oxidizing agents	;
11.1 Information of Information of		proc	ducts are known.	
Information or	oxicological inf	fori	mation	
	on hazard class n likely routes of		as defined in Reg Inhalation Skin contact Ingestion Eye contact	gulation (EC) No 1272/2008
Acute toxicit Not classified	y based on availat	ble i	information.	
<u>Components</u>	<u>):</u>			
Suvorexant:				
Acute oral tox	kicity	:	LD50 (Rat): > 1.2	.00 mg/kg
			LD50 (Dog): > 1.7	125 mg/kg
			LDLo (Mouse): 2.	.000 mg/kg
Skin corrosid Not classified	on/irritation based on availat	blei	information.	
Components	<u>s:</u>			
Suvorexant:				
Species Result		:	Rabbit No skin irritation	
Serious eye Not classified	damage/eye irrit			
Components	based on availat			
Suvorexant:				
Species				



Suvorexant Formulation

ersion 1	Revision Date: 26.09.2023	SDS No 21547-		Date of last issue: 20.03.2023 Date of first issue: 14.10.2014
	Method Result		ine cornea (I eye irritatio	
Resp	iratory or skin sensi	tisation		
-	sensitisation lassified based on ava	ailable infor	mation.	
-	iratory sensitisation lassified based on ava		mation.	
Com	oonents:			
Test Speci	ies ssment	: Moi : Doe	ise	de assay (LLNA) skin sensitisation.
	cell mutagenicity lassified based on ava	ailable infor	mation.	
<u>Com</u>	oonents:			
	rexant: toxicity in vitro		t Type: Bact sult: negative	erial reverse mutation assay (AMES)
		Tes		line elution assay hepatocytes
		Tes		mosomal aberration ninese hamster ovary cells
Geno	toxicity in vivo	Spe	t Type: Micro cies: Mouse sult: negative	
		Spe	t Type: Micro cies: Rat sult: negative	onucleus test
	nogenicity lassified based on ava	ailable infor	mation.	
Com	oonents:			
Speci Applio	rexant: les cation Route sure time	: Mor : Ora : 6 m		



Suvorexant Formulation

ersion .1	Revision Date: 26.09.2023	-	0S Number: 547-00023	Date of last issue: 20.03.2023 Date of first issue: 14.10.2014
Result		:	negative	
	s ation Route ure time	:	Rat Oral 2 Years negative	
-	ductive toxicity ssified based on avai	lable	information.	
Compo	onents:			
Suvore Effects	exant: on fertility	:	Species: Rat, ma Application Rout	
Effects ment	on foetal develop-	:	Species: Rabbit, Application Rout	
			Species: Rat Application Rout	yo-foetal development e: Oral ⁻ oxicity: NOAEL: 80 mg/kg body weight
STOT	- single exposure			
Not cla	ssified based on avai	lable	information.	
Compo	onents:			
Suvore	exant:			

Remarks

: Based on human experience.

STOT - repeated exposure

Not classified based on available information.

Components:

Suvorexant:

Exposure routes Target Organs		Ingestion Central nervous system
Assessment	:	May cause damage to organs through prolonged or repeated exposure.

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



Suvorexant Formulation

Version 2.1	Revision Date: 26.09.2023	SDS Number: 21547-00023	Date of last issue: 20.03.2023 Date of first issue: 14.10.2014
-	eated dose toxicity		
<u>Com</u>	ponents:		
Suvo	erexant:		
Expo	EL	: Rat : 325 mg/kg : 1.200 mg/k : Oral : 30 d : Blood, Pan	-
Expo	EL	: Dog : 50 mg/kg : 125 mg/kg : Oral : 30 d : Blood, Live	r, Central nervous system
Expo	EL	: Rat : 75 mg/kg : 300 mg/kg : Oral : 180 d : Pancreas, I	Blood, Stomach
Expo	EL	: Dog : 50 mg/kg : 125 mg/kg : Oral : 270 d : Blood	
Expo	EL	: Rat : 40 mg/kg : 80 mg/kg : Oral : 18 Months : Eye, Centra	al nervous system

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.

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



Suvorexant Formulation

Version	Revision Date:	SDS Number:	Date of last issue: 20.03.2023
2.1	26.09.2023	21547-00023	Date of first issue: 14.10.2014

Experience with human exposure

Components:

Suvorexant:

Ingestion

: Symptoms: Drowsiness, Headache, abnormal dreams, Fatigue, Dizziness, dry mouth, Nausea, liver function change, upper respiratory tract infection, urinary tract infection, Cough, Diarrhoea, Palpitation, tachycardia

SECTION 12: Ecological information

12.1 Toxicity

Components:

Suvorexant:		
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Mysidopsis bahia (opossum shrimp)): 0,56 mg/l Exposure time: 96 h Method: US-EPA OPPTS 850.1035
Toxicity to algae/aquatic plants	:	EC50 (Pseudokirchneriella subcapitata (green algae)): > 5 mg/l Exposure time: 72 h Method: OECD Test Guideline 201
		NOEC (Pseudokirchneriella subcapitata (green algae)): 2,5 mg/l Exposure time: 72 h Method: OECD Test Guideline 201
M-Factor (Acute aquatic tox- icity)	:	1
Toxicity to microorganisms	:	EC50 : > 1.000 mg/l Exposure time: 3 h Test Type: Respiration inhibition Method: OECD Test Guideline 209
		NOEC : 1.000 mg/l Exposure time: 3 h Test Type: Respiration inhibition Method: OECD Test Guideline 209
Toxicity to fish (Chronic tox- icity)	:	NOEC: 0,14 mg/l Exposure time: 32 d Species: Pimephales promelas (fathead minnow) Method: OECD Test Guideline 210
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)	:	NOEC: 0,5 mg/l Exposure time: 21 d Species: Daphnia magna (Water flea)

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



Suvorexant Formulation

Version 2.1	Revision Date: 26.09.2023	SDS Number: 21547-00023	Date of last issue: 20.03.2023 Date of first issue: 14.10.2014
		Method: OE	CD Test Guideline 211
12.2 Pers	sistence and degradal	bility	
Con	ponents:		
Suv	orexant:		
Biodegradability		Biodegradat Exposure tir	
Stab	ility in water	: Hydrolysis: Method: OE	< 10 %(5 d) CD Test Guideline 111
12.3 Bioa	accumulative potentia	I	
Con	nponents:		
Suv	orexant:		
Bioa	ccumulation	Bioconcentr	pomis macrochirus (Bluegill sunfish) ation factor (BCF): 358 CD Test Guideline 305
	Partition coefficient: n- octanol/water)4
	12.4 Mobility in soil No data available		
12.5 Res	ults of PBT and vPvB	assessment	
Proc	duct:		
Asse	essment	to be either	nce/mixture contains no components considered persistent, bioaccumulative and toxic (PBT), or ent and very bioaccumulative (vPvB) at levels of ner.
12.6 End	ocrine disrupting pro	perties	
Proc	duct:		
Assessment :		ered to have REACH Arti (EU) 2017/2	nce/mixture does not contain components consid- e endocrine disrupting properties according to cle 57(f) or Commission Delegated regulation 100 or Commission Regulation (EU) 2018/605 at % or higher.

12.7 Other adverse effects

No data available



Version	Revision Date:	SDS Number:	Date of last issue: 20.03.2023
2.1	26.09.2023	21547-00023	Date of first issue: 14.10.2014

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. 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

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
IMDG	:	Not regulated as a dangerous good

14.1 UN number or ID number



Suvorexant Formulation

Revision Date: 26.09.2023	SDS Number: 21547-00023	Date of last issue: 20.03.2023 Date of first issue: 14.10.2014		
(Cargo)	: Not regulate	d as a dangerous good		
IATA (Passenger)		Not regulated as a dangerous good		
14.5 Environmental hazards Not regulated as a dangerous				
•	ser			
14.7 Maritime transport in bulk according to IMO instruments				
irks	: Not applicat	: Not applicable for product as supplied.		
	26.09.2023 (Cargo) (Passenger) onmental hazards egulated as a dangero ial precautions for u oplicable	26.09.2023 21547-00023 (Cargo) : Not regulate (Passenger) : Not regulate onmental hazards	26.09.2023 21547-00023 Date of first issue: 14.10.2014 (Cargo) : Not regulated as a dangerous good (Passenger) : Not regulated as a dangerous good onmental hazards	

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)	:	Not applicable
REACH - Candidate List of Substances of Very High	:	Not applicable
Concern for Authorisation (Article 59).		
REACH - List of substances subject to authorisation	:	Not applicable
(Annex XIV)		
Regulation (EC) No 1005/2009 on substances that de-	:	Not applicable
plete the ozone layer		
Regulation (EU) 2019/1021 on persistent organic pollu-	:	Not applicable
tants (recast)		
Regulation (ÉC) No 649/2012 of the European Parlia-	:	Not applicable
ment and the Council concerning the export and import		
of dangerous chemicals		
5		and of the Council on the control of
Seveso III: Directive 2012/18/EU of the European Parlian		
major-accident hazards involving dangerous substances.	•	
Natawalian I.		

Not applicable

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.
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Suvorexant Formulation

Version 2.1	Revision Date: 26.09.2023	SDS Number: 21547-00023				
	ext of H-Statements					
H336			e drowsiness or dizziness.			
H373			May cause damage to organs through prolonged or repeated exposure if swallowed.			
H400	1	: Very toxic	: Very toxic to aquatic life.			
H411		: Toxic to a	Toxic to aquatic life with long lasting effects.			
Full t	ext of other abbreviat	ions				
Aqua	tic Acute	: Short-tern	n (acute) aquatic hazard			
Aqua	tic Chronic	: Long-term	(chronic) aquatic hazard			
STOT RE		: Specific ta	arget organ toxicity - repeated exposure			
STOT SE		: Specific ta	arget organ toxicity - single exposure			
FOR-	2011-12-06-1358	: Norway. C	Occupational Exposure limits			
FOR- TWA	2011-12-06-1358 /	: Long term	exposure limit			

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 : compile the Safety Data Sheet

Internal technical data, data from raw material SDSs, OECD eChem Portal search results and European Chemicals Agency, http://echa.europa.eu/



Version	Revision Date:	SDS Number:	Date of last issue: 20.03.2023
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Classification of the mixture:

Aquatic Chronic 3 H412

Classification procedure:

Calculation method

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NO / EN