

## **Suvorexant Formulation**

Version	Revision Date:	SDS Number:	Date of last issue: 20.03.2023
6.1	26.09.2023	21544-00023	Date of first issue: 14.10.2014

### SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name	:	Suvorexant Formulation			
Manufacturer or supplier's	deta	ails			
Company name of supplier	:	MSD			
Address	·	126 E. Lincoln Avenue Rahway, New Jersey U.S.A. 07065			
Telephone	:	908-740-4000			
Emergency telephone	:	1-908-423-6000			
E-mail address	:	EHSDATASTEWARD@msd.com			
Recommended use of the chemical and restrictions on use					

Recommended use	:	Pharmaceutical
Restrictions on use	:	Not applicable

### **SECTION 2. HAZARDS IDENTIFICATION**

GHS Classification Specific target organ toxicity - repeated exposure (Oral)	:	Category 2 (Central nervous system)
GHS label elements Hazard pictograms	:	
Signal Word	:	Warning
Hazard Statements	:	H373 May cause damage to organs (Central nervous system) through prolonged or repeated exposure if swallowed.
Precautionary Statements	:	<b>Prevention:</b> P260 Do not breathe dust.
		Response: P314 Get medical advice/ attention if you feel unwell.
		<b>Disposal:</b> P501 Dispose of contents/ container to an approved waste disposal plant.
Other hazards		

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

Substance / Mixture : Mixture



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Comp	oonents					
Chem	ical name			CAS-No.	Concentration (% w/w)	
	exant			1030377-33-3	>= 5 -< 10	
Magn	esium stearate			557-04-0	>= 1 -< 5	
SECTION	4. FIRST AID MEASU	RES				
Gene	ral advice	:	advice immed	liately.	eel unwell, seek medical cases of doubt seek medical	
lf inha	aled	:	: If inhaled, remove to fresh air. Get medical attention if symptoms occur.			
In cas	e of skin contact	:	Wash with wa			
In cas	e of eye contact	:	If in eyes, rins	se well with water.	levelops and persists.	
lf swa	llowed	:	<ul> <li>If swallowed, DO NOT induce vomiting.</li> <li>Get medical attention if symptoms occur.</li> <li>Rinse mouth thoroughly with water.</li> </ul>			
	important symptoms ffects, both acute and ed	:	<ul> <li>May cause damage to organs through prolonged or repeated exposure if swallowed.</li> <li>Contact with dust can cause mechanical irritation or drying of the skin.</li> </ul>			
Prote	ction of first-aiders	:	Dust contact with the eyes can lead to mechanical irritation. 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).			
Notes	to physician	:		matically and suppo		

### SECTION 5. FIRE-FIGHTING MEASURES

Suitable extinguishing media	:	Water spray Alcohol-resistant foam Carbon dioxide (CO2) Dry chemical
Unsuitable extinguishing media	:	None known.
Specific hazards during fire fighting	:	Avoid generating dust; fine dust dispersed in air in sufficient concentrations, and in the presence of an ignition source is a potential dust explosion hazard. Exposure to combustion products may be a hazard to health.
Hazardous combustion prod- ucts	:	Carbon oxides Metal oxides
Specific extinguishing meth- ods	:	Use extinguishing measures that are appropriate to local cir- cumstances and the surrounding environment. Use water spray to cool unopened containers. Remove undamaged containers from fire area if it is safe to do so. Evacuate area.
Special protective equipment	:	In the event of fire, wear self-contained breathing apparatus.



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fo	or fire-f	ighters		Use personal protective equipment.		
SECT	ION 6.	ACCIDENTAL RELE	ASE	E MEASURES		
Personal precautions, protec- tive equipment and emer- gency procedures		:	Use personal protective equipment. Follow safe handling advice (see section 7) and personal protective equipment recommendations (see section 8).			
E	Environmental precautions		:	Avoid release to the environment. Prevent further leakage or spillage if safe to do so. Retain and dispose of contaminated wash water. Local authorities should be advised if significant spillages cannot be contained.		
	Methods and materials for containment and cleaning up		:	container for disper Avoid dispersal of with compressed a Dust deposits sho surfaces, as these released into the a Local or national r disposal of this ma employed in the c determine which r Sections 13 and 1	dust in the air (i.e., clearing dust surfaces	

### SECTION 7. HANDLING AND STORAGE

Technical measures	<ul> <li>Static electricity may accumulate and ignite suspended dust causing an explosion.</li> <li>Provide adequate precautions, such as electrical grounding and bonding, or inert atmospheres.</li> </ul>
Local/Total ventilation Advice on safe handling	<ul> <li>Use only with adequate ventilation.</li> <li>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</li> </ul>
Hygiene measures	<ul> <li>assessment</li> <li>Minimize dust generation and accumulation.</li> <li>Keep container closed when not in use.</li> <li>Keep away from heat and sources of ignition.</li> <li>Take precautionary measures against static discharges.</li> <li>Take care to prevent spills, waste and minimize release to the environment.</li> <li>If exposure to chemical is likely during typical use, provide eye flushing systems and safety showers close to the working place.</li> <li>When using do not eat, drink or smoke.</li> <li>Wash contaminated clothing before re-use.</li> <li>The effective operation of a facility should include review of</li> </ul>



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	itions for safe storage rials to avoid	appropriate de industrial hygi use of adminis : Keep in prope Store in accor	ontrols, proper personal protective equipment, egowning and decontamination procedures, ene monitoring, medical surveillance and the strative controls. erly labeled containers. dance with the particular national regulations. with the following product types: ng agents

### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components	CAS-No.	Value type (Form of exposure)	Control parame- ters / Permissible concentration	Basis
Suvorexant	1030377-33- 3	TWA	14 µg/m3 (OEB 3)	Internal
		Wipe limit	140 µg/100 cm <sup>2</sup>	Internal
Magnesium stearate	557-04-0	VLE-PPT	10 mg/m <sup>3</sup>	NOM-010- STPS-2014
		TWA (Inhalable particulate matter)	10 mg/m³	ACGIH
		TWA (Respirable particulate matter)	3 mg/m³	ACGIH

### Ingredients with workplace control parameters

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. 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 equipme	ent	
Respiratory protection	:	If adequate local exhaust ventilation is not available or exposure assessment demonstrates exposures outside the recommended guidelines, use respiratory protection.
Filter type Hand protection	:	Particulates type
Material	:	Chemical-resistant gloves
Remarks Eye protection	:	Consider double gloving. 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



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Skin and body protection		<ul> <li>aerosols.</li> <li>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.</li> </ul>			
ECTION	N 9. PHYSICAL AND CHE	EMI	CAL PROPERT	ES	
Appe	earance	:	powder		
Colo	or	:	No data availa	ble	
Odo	r	:	No data availa	ble	
Odo	r Threshold	:	No data availa	ble	
pН		:	No data availa	ble	
Melt	ing point/freezing point	:	No data availa	ble	
Initia rang	al boiling point and boiling Je	:	No data availa	ble	
Flas	h point	:	Not applicable		
Evap	poration rate	:	Not applicable		
Flam	nmability (solid, gas)	:	: May form explosive dust-air mixture during processing, handling or other means.		
Flam	nmability (liquids)	:	No data availa	ble	
	er explosion limit / Upper mability limit	:	No data availa	ble	
	er explosion limit / Lower mability limit	:	No data availa	ble	
Vapo	or pressure	:	Not applicable		
Rela	ative vapor density	:	Not applicable		
Rela	ative density	:	No data availa	ble	
Den	sity	:	No data availa	ble	
	bility(ies) Vater solubility	:	No data availa	ble	
	ition coefficient: n-	:	Not applicable		
	nol/water bignition temperature	:	No data availa	ble	



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Decon	Decomposition temperature		No data available	e
Vis	Viscosity Viscosity, kinematic Explosive properties		Not applicable Not explosive	
Molec	Oxidizing properties Molecular weight Particle size		The substance o No data available No data available	-

### SECTION 10. STABILITY AND REACTIVITY

Reactivity Chemical stability Possibility of hazardous reac- tions	<ul> <li>Not classified as a reactivity hazard.</li> <li>Stable under normal conditions.</li> <li>May form explosive dust-air mixture during processing, handling or other means.</li> <li>Can react with strong oxidizing agents.</li> </ul>	
Conditions to avoid	: Heat, flames and sparks. Avoid dust formation.	
Incompatible materials Hazardous decomposition products	<ul><li>Oxidizing agents</li><li>No hazardous decomposition products are known.</li></ul>	

#### SECTION 11. TOXICOLOGICAL INFORMATION

### Information on likely routes of exposure

Inhalation Skin contact Ingestion Eye contact

#### Acute toxicity

Not classified based on available information.

#### **Components:**

#### Suvorexant:

Acute oral toxicity	:	LD50 (Rat): > 1,200 mg/kg
		LD50 (Dog): > 1,125 mg/kg
		LDLo (Mouse): 2,000 mg/kg

### Magnesium stearate:

Acute oral toxicity	: LD50 (Rat): > 2,000 mg/kg
	Method: OECD Test Guideline 423
	Assessment: The substance or mixture has no acute oral tox-



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sion	Revision Date: 26.09.2023	SDS Numbe 21544-00023					
		icity Remarks	: Based on data from similar materials				
Acute	dermal toxicity		abbit): > 2,000 mg/kg s: Based on data from similar materials				
	corrosion/irritation						
	assified based on av	ailable informatio	n.				
	oonents:						
	rexant:						
Speci Resul		: Rabbit : No skin i	rritation				
Magn	esium stearate:						
Speci		: Rabbit					
Resul Rema		: No skin i					
Rema	1172	. Daseu u	: Based on data from similar materials				
Not cl	us eye damage/eye assified based on av ponents:		on.				
Not cl <u>Comp</u>	assified based on av ponents: rexant: es t	ailable informatio : Bovine c : Mild eye	ornea				
Not cl <u>Comp</u> Suvor Specia Resul Metho	assified based on av ponents: rexant: es t od	ailable informatio : Bovine c : Mild eye	ornea irritation				
Not cl <u>Comp</u> Suvor Specia Resul Metho	assified based on av <u>ponents:</u> rexant: es t bd esium stearate:	ailable informatio : Bovine c : Mild eye	ornea irritation				
Not cl Comp Suvor Specia Resul Metho Specia Resul	assified based on av <u>ponents:</u> rexant: es t od esium stearate: es t	ailable informatic : Bovine c : Mild eye : Bovine c : Rabbit : No eye ir	ornea irritation ornea (BCOP) rritation				
Not cl <u>Comp</u> Suvor Specie Resul Metho Specie Resul Resul Rema	assified based on av <u>ponents:</u> rexant: es t od esium stearate: es t irks	ailable information : Bovine c : Mild eye : Bovine c : Rabbit : No eye in : Based on	ornea irritation ornea (BCOP)				
Not cl <u>Comp</u> Suvor Specie Resul Metho Specie Resul Resul Rema	assified based on av <u>ponents:</u> rexant: es t od esium stearate: es t	ailable information : Bovine c : Mild eye : Bovine c : Rabbit : No eye in : Based on	ornea irritation ornea (BCOP) rritation				
Not cl Comp Suvor Specia Resul Metho Specia Resul Rema Respi Skin s	assified based on av <u>ponents:</u> rexant: es t od esium stearate: es t irks	ailable information : Bovine c : Mild eye : Bovine c : Rabbit : No eye in : Based on	ornea irritation ornea (BCOP) rritation n data from similar materials				
Not cl Comp Suvor Specia Resul Metho Magn Specia Resul Rema Respi Skin s Not cl Respi	assified based on av <u>ponents:</u> rexant: es t bd esium stearate: es t iratory or skin sens sensitization	ailable information : Bovine c : Mild eye : Bovine c : Rabbit : No eye in : Based on itization ailable information	ornea irritation ornea (BCOP) rritation n data from similar materials				
Not cl Comp Suvor Specie Resul Metho Magn Specie Resul Rema Respi Skin s Not cl Respi Not cl	assified based on av <u>ponents:</u> rexant: es t bd esium stearate: es t iratory or skin sens sensitization assified based on av iratory sensitization	ailable information : Bovine c : Mild eye : Bovine c : Rabbit : No eye in : Based on itization ailable information	ornea irritation ornea (BCOP) rritation n data from similar materials				
Not cl Comp Suvor Specie Resul Metho Magn Specie Resul Rema Respi Skin s Not cl Respi Not cl Comp	assified based on av <u>conents:</u> rexant: es t od esium stearate: es t iratory or skin sens sensitization assified based on av iratory sensitization assified based on av	ailable information : Bovine c : Mild eye : Bovine c : Rabbit : No eye in : Based on itization ailable information	ornea irritation ornea (BCOP) rritation n data from similar materials				
Not cl Comp Suvor Specie Resul Metho Magn Specie Resul Resul Resul Resul Resul Resul Resul Resul Resul Resul Resul Resul Comp Suvor Skin s Not cl Comp Suvor Suvor Suvor Suvor Suvor Suvor Specie Resul	assified based on av <u>conents:</u> rexant: es t od esium stearate: es t iratory or skin sens sensitization assified based on av iratory sensitization assified based on av <u>conents:</u> rexant: Type	ailable information : Bovine c : Mild eye : Bovine c : Rabbit : No eye in : Based on itization ailable information ailable information : Local lyn	ornea irritation ornea (BCOP) rritation n data from similar materials				
Not cl Comp Suvor Specie Resul Metho Magn Specie Resul Resul Resul Resul Resul Resul Resul Resul Resul Resul Resul Resul Comp Suvor Skin s Not cl Comp Suvor Suvor Suvor Suvor Skin s	assified based on av <u>conents:</u> rexant: es t od esium stearate: es t iratory or skin sens sensitization assified based on av iratory sensitization assified based on av <u>conents:</u> rexant: Type	ailable information : Bovine c : Mild eye : Bovine c : Rabbit : No eye in : Based on itization ailable information ailable information : Local lyn : Mouse	ornea irritation ornea (BCOP) rritation n data from similar materials on.				

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Test T	es of exposure es od t	: Skin cor : Guinea   : OECD T : negative	pig Test Guideline 406
Not cl	assified based on ava	ailable informatio	on.
	<u>oonents:</u>		
	rexant: toxicity in vitro	: Test Typ Result: r	be: Bacterial reverse mutation assay (AMES) negative
			be: Alkaline elution assay stem: rat hepatocytes negative
			be: Chromosomal aberration stem: Chinese hamster ovary cells negative
Genot	toxicity in vivo	: Test Typ Species Result: r	
		Test Typ Species Result: r	
Magn	esium stearate:		
Genot	toxicity in vitro	Result: r	be: In vitro mammalian cell gene mutation test negative s: Based on data from similar materials
		Method: Result: r	be: Chromosome aberration test in vitro OECD Test Guideline 473 negative s: Based on data from similar materials
		Result: r	be: Bacterial reverse mutation assay (AMES) negative s: Based on data from similar materials

### Carcinogenicity

Not classified based on available information.



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	Comp	onents:			
			:	Mouse Oral 6 month(s) negative	
		s ation Route ure time	:	Rat Oral 2 Years negative	
	-	ductive toxicity ssified based on availa	ble	information.	
	<u>Comp</u>	onents:			
	Suvore Effects	exant: on fertility	:	Species: Rat, mal Application Route	
	Effects	on fetal development	:	Species: Rabbit, f Application Route	
				Species: Rat Application Route	o-fetal development : Oral xicity: NOAEL: 80 mg/kg body weight
	Magne	sium stearate:			
	-	on fertility	:	reproduction/dever Species: Rat Application Route Method: OECD Te Result: negative	
	Effects	on fetal development	:	Species: Rat Application Route Result: negative	o-fetal development Ingestion on data from similar materials



ersion 1	Revision Date: 26.09.2023	SDS Number: 21544-00023	Date of last issue: 20.03.2023 Date of first issue: 14.10.2014
STOT	-single exposure		
	assified based on av	ailable information.	
Com	oonents:		
	rexant:		
Rema	urks	: Based on hu	nan experience.
May o	-repeated exposure cause damage to org llowed.		system) through prolonged or repeated exposu
<u>Com</u>	oonents:		
Suvo	rexant:		
Route	es of exposure	: Ingestion	
	et Organs	: Central nervo	
Asses	ssment	: May cause da exposure.	amage to organs through prolonged or repeated
Repe	ated dose toxicity		
<u>Com</u>	oonents:		
Suvo	rexant:		
Speci	es	: Rat	
NOAE		: 325 mg/kg	
LOAE		: 1,200 mg/kg	
	cation Route	: Oral	
	sure time	: 30 d	
Targe	et Organs	: Blood, Pancr	eas
Speci		: Dog	
NOAE		: 50 mg/kg	
LOAE		: 125 mg/kg	
	cation Route	: Oral : 30 d	
	sure time et Organs		Central nervous system
rarge	a organs		
Speci		: Rat	
NOAE		: 75 mg/kg	
LOAE		: 300 mg/kg	
	cation Route	: Oral : 180 d	
	sure time et Organs		ood, Stomach
Speci	es	: Dog	
NOAE		: 50 mg/kg	
LOAE		: 125 mg/kg	
	cation Route	: Oral	
	sure time	: 270 d	
Targe	et Organs	: Blood	
	es	: Rat	



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ersion 1	Revision Date: 26.09.2023		9S Number: 544-00023	Date of last issue: 20.03.2023 Date of first issue: 14.10.2014
Expos		:	40 mg/kg 80 mg/kg Oral 18 Months Eye, Central ner	vous system
Magn	esium stearate:			
	EL cation Route sure time	:	Rat > 100 mg/kg Ingestion 90 Days Based on data fr	om similar materials
Aspir	ation toxicity			
Not cl	assified based on availa	ble	information.	
Expe	rience with human exp	osı	ire	
<u>Comp</u>	oonents:			
Suvo	rexant:			
Inges	tion	:	tigue, Dizziness,	vsiness, Headache, abnormal dreams, Fa- dry mouth, Nausea, liver function change, v tract infection, urinary tract infection, Cough tion, tachycardia
CTION	12. ECOLOGICAL INFO	ORN	IATION	
Ecoto	oxicity			
<u>Comp</u>	oonents:			
Suvo	rexant:			
	ity to daphnia and other ic invertebrates	:	Exposure time: 9	is bahia (opossum shrimp)): 0.56 mg/l 6 h \ OPPTS 850.1035
Toxici plants	ity to algae/aquatic	:	mg/l Exposure time: 7	rchneriella subcapitata (green algae)): > 5 2 h Fest Guideline 201
			mg/l Exposure time: 7	irchneriella subcapitata (green algae)): 2.5 2 h <sup>-</sup> est Guideline 201
Toxici icity)	ity to fish (Chronic tox-	:	Exposure time: 3	les promelas (fathead minnow)): 0.14 mg/l 2 d <sup>r</sup> est Guideline 210

Toxicity to daphnia and other<br/>aquatic invertebrates (Chron-<br/>ic toxicity)NOEC (Daphnia magna (Water flea)): 0.5 mg/l<br/>Exposure time: 21 d<br/>Method: OECD Test Guideline 211



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	Toxicity	to microorganisms	:	EC50: > 1,000 mg Exposure time: 3 I Test Type: Respir Method: OECD Te NOEC: 1,000 mg/ Exposure time: 3 I Test Type: Respir Method: OECD Te	n ation inhibition est Guideline 209 I n ation inhibition
1	Magnes	ium stearate:			
-	Toxicity	to fish	:	Exposure time: 48 Method: DIN 3841	
		to daphnia and other invertebrates	:	Exposure time: 47 Test substance: W Method: Directive	Vater Accommodated Fraction 67/548/EEC, Annex V, C.2. on data from similar materials
	Toxicity plants	to algae/aquatic	:	mg/l Exposure time: 72 Test substance: W Method: OECD Te	Vater Accommodated Fraction est Guideline 201 on data from similar materials
				mg/l Exposure time: 72 Test substance: W Method: OECD Te	Vater Accommodated Fraction
-	Toxicity	to microorganisms	:	Exposure time: 16 Test substance: V	nas putida): > 100 mg/l h /ater Accommodated Fraction on data from similar materials
I	Persiste	ence and degradabilities	ity		
<u>(</u>	Compoi	nents:			
:	Suvore	kant:			
I	Biodegra	adability	:	Result: Not readily Biodegradation: 8 Exposure time: 28 Method: OECD Te	31 % 5 d



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Stal	Stability in water		Hydrolysis: < 10 <sup>o</sup> Method: OECD T	%(5 d) Test Guideline 111
-	<b>Magnesium stearate:</b> Biodegradability		Result: Not biode Remarks: Based	gradable on data from similar materials
Bio	accumulative potential			
Cor	nponents:			
Suv	orexant:			
Bioa	accumulation	:	Bioconcentration	s macrochirus (Bluegill sunfish) factor (BCF): 358 rest Guideline 305
	tition coefficient: n- anol/water	:	log Pow: 4.04	
Мас	gnesium stearate:			
	tition coefficient: n- anol/water	:	log Pow: > 4	
Mol	Mobility in soil			
No	No data available			
Oth	er adverse effects			
No	data available			

### SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods	
Waste from residues	: Do not dispose of waste into sewer.
	Dispose of in accordance with local regulations.
Contaminated packaging	<ul> <li>Empty containers should be taken to an approved waste handling site for recycling or disposal.</li> <li>If not otherwise specified: Dispose of as unused product.</li> </ul>

#### **SECTION 14. TRANSPORT INFORMATION**

#### International Regulations

UNRTDG

Not regulated as a dangerous good

#### IATA-DGR

Not regulated as a dangerous good

#### IMDG-Code

Not regulated as a dangerous good

### Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

#### **Domestic regulation**



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	<b>I-002-SCT</b> regulated as a danger	ous good						
	Special precautions for user Not applicable							
SECTION 15. REGULATORY INFORMATION								
Safety, health and environmental regulations/legislation specific for the substance or mixture								
esse	Federal Law for the control of chemical precursors, : Not applicable essential chemical products and machinery for producing capsules, tablets and pills.							
The ingredients of this product are reported in the following inventories:         AICS       : not determined								
DSL		: not determined	ł					

: not determined

### **SECTION 16. OTHER INFORMATION**

IECSC

Revision Date Date format	-	26.09.2023 dd.mm.yyyy				
Full text of other abbreviations						
ACGIH	:	USA. ACGIH Threshold Limit Values (TLV)				
NOM-010-STPS-2014	:	Mexico. Norm NOM-010-STPS-2014 on Chemicals Polluting the Work Environment - Identification, Assessment and Con- trol - Appendix 1 Occupational Exposure Limits				
ACGIH / TWA	:	8-hour, time-weighted average				
NOM-010-STPS-2014 / VLE- PPT	:	Time weighted average limit value				

AIIC - Australian Inventory of Industrial Chemicals; ANTT - National Agency for Transport by Land of Brazil; ASTM - American Society for the Testing of Materials; bw - Body weight; CMR -Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); 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; ERG - Emergency Response Guide; 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; Nch - Chilean Norm; NO(A)EC - No Observed (Adverse) Effect



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Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NOM - Official Mexican Norm; NTP - National Toxicology Program; 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; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TDG - Transportation of Dangerous Goods; 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; WHMIS - Workplace Hazardous Materials Information System

Sources of key data used to : compile the Material Safety Data Sheet

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

The information is considered as correct, but not exhaustive, and will be used only as a guide, which is based in the current knowledge of the substance or mixture, and is applicable to proper safety precautions for the product.

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