

Version 5.0	Revision Date: 06.04.2024		S Number: 081-00023	Date of last issue: 26.09.2023 Date of first issue: 30.09.2014
Section 1	: Identification			
Produ	uct identifier	:	Losartan / Hydro	chlorothiazide Formulation
Reco	mmended use of the ch	nem	ical and restriction	ons on use
Reco	mmended use	:	Pharmaceutical	
Restr	ictions on use	:	Not applicable	
Manu	facturer or supplier's d	letai	ils	
Comp	bany	:	Organon & Co.	
Addre	255	:	30 Hudson Stree Jersey City, New	et, 33nd floor / Jersey, U.S.A 07302
Telep	hone	:	+1-551-430-600	0
Emer	gency telephone number	:	+1-215-631-699	9
E-ma	il address	:	EHSSTEWARD	@organon.com
Section 2	: Hazard identification			

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Classification of the substan	се	or mixture
Serious eye damage/eye irri- tation	:	Category 1
Skin sensitisation	:	Category 1
Reproductive toxicity	:	Category 1B
Effects on or via lactation		
Specific target organ toxicity - repeated exposure	:	Category 2 (Kidney, Parathyroid gland)
Specific target organ toxicity - repeated exposure (Oral)	:	Category 2 (Blood, Cardio-vascular system, Stomach, Kidney)

GHS Label elements, including precautionary statements

Hazard pictograms	:	
Signal word	:	Danger
Hazard statements	:	H317 May cause an allergic skin reaction.



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		H360D May d H362 May cau H373 May cau gland) through H373 May cau	serious eye damage. amage the unborn child. use harm to breast-fed children. use damage to organs (Kidney, Parathyroid n prolonged or repeated exposure. use damage to organs (Blood, Cardio-vascular ach, Kidney) through prolonged or repeated ex- lowed.
Preca	utionary statements	P202 Do not h and understoc P260 Do not b P263 Avoid co P264 Wash sh P270 Do not e P272 Contam the workplace P280 Wear pr	preathe dust. Intact during pregnancy and while nursing. kin thoroughly after handling. eat, drink or smoke when using this product. inated work clothing should not be allowed out of
		P305 + P351 - water for seve and easy to do CENTER/ doo P308 + P313 attention. P333 + P313 vice/ attention	IF exposed or concerned: Get medical advice/ If skin irritation or rash occurs: Get medical ad-
		Storage: P405 Store lo	cked up.
		Disposal: P501 Dispose disposal plant	of contents/ container to an approved waste

May form explosive dust-air mixture during processing, handling or other means.

Section 3: Composition/information on ingredients

Substance / Mixture	: Mixture		
Components			
Chemical name		CAS-No.	Concentration (% w/w)



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Cellulose	9004-34-6	>= 30 -< 50
Losartan	124750-99-8	>= 20 -< 30
Starch	9005-25-8	>= 10 -< 20
Hydrochlorothiazide	58-93-5	>= 1 -< 10

Section 4: First-aid measures

Description of necessary 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.
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	:	In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. If easy to do, remove contact lens, if worn.
		Get medical attention immediately.
If swallowed	:	If swallowed, DO NOT induce vomiting. Get medical attention.
		Rinse mouth thoroughly with water.
Most important symptoms an	nd	effects, both acute and delayed
Risks	:	May cause an allergic skin reaction.
		Causes serious eye damage.
		May damage the unborn child. May cause harm to breast-fed children.
		May cause damage to organs through prolonged or repeated exposure.
		Contact with dust can cause mechanical irritation or drying of the skin.
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).
Indication of any immediate	me	dical attention and special treatment needed
Treatment	:	Treat symptomatically and supportively.

Section 5: Fire-fighting measures

Extinguishing media

Suitable extinguishing media	:	Water spray
0 0		Alcohol-resistant foam
		Carbon dioxide (CO2)



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Unsui media	itable extinguishing	:	Dry chemical None known.			
Spec	ial hazards arising fron	n th	e substance or	mixture		
-	fic hazards during fire-	:	Avoid generatir concentrations, potential dust e	ng dust; fine dust dispersed in air in sufficient , and in the presence of an ignition source is a explosion hazard. mbustion products may be a hazard to health.		
Haza ucts	rdous combustion prod-	:	Carbon oxides Chlorine compounds Nitrogen oxides (NOx) Chlorine compounds Sulphur oxides			
Spec	ial protective actions fo	or fi	ire-fighters			
Special protective equipment for firefighters Specific extinguishing meth- ods		:	In the event of fire, wear self-contained breathing apparatus. Use personal protective equipment. 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.			
Section 6	Accidental release me	as	ures			
	precautions, protective nal precautions	eq :	Use personal p Follow safe har	nergency procedures protective equipment. Indling advice (see section 7) and personal pro ent recommendations (see section 8).		
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. Local authorities should be advised if significant spillages cannot be contained.			
	and materials for conta ods for cleaning up	inn :	Sweep up or va tainer for dispo- Avoid dispersal with compresse Dust deposits s es, as these ma leased into the Local or nationa posal of this ma employed in the	acuum up spillage and collect in suitable con- sal. I of dust in the air (i.e., clearing dust surfaces		

mine which regulations are applicable.



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			and 15 of this SDS provide information regarding or national requirements.
ection 7	: Handling and stora	ge	
Preca	autions for safe hand	llina	
	nical measures	: Static electric causing an e Provide adec	uate precautions, such as electrical grounding
Local	/Total ventilation		, or inert atmospheres. entilation is unavailable, use with local exhaust
Advic	e on safe handling	: Avoid contact Do not get or Do not breat Do not swalle Do not swalle Do not get in Wash skin th Handle in act practice, bas sessment Keep contain Keep contain Keep contain Keep away fi Take precau Do not eat, d Take care to environment.	bw. eyes. oroughly after handling. cordance with good industrial hygiene and safet ed on the results of the workplace exposure as- ner tightly closed. at generation and accumulation. her closed when not in use. from heat and sources of ignition. tionary measures against static discharges. rink or smoke when using this product. prevent spills, waste and minimize release to the
Hygie	ene measures	flushing syste place. When using of Contaminate workplace. Wash contan The effective engineering of appropriate of industrial hyg	o chemical is likely during typical use, provide eyems and safety showers close to the working do not eat, drink or smoke. d work clothing should not be allowed out of the ninated clothing before re-use. operation of a facility should include review of controls, proper personal protective equipment, degowning and decontamination procedures, giene monitoring, medical surveillance and the istrative controls.
Cond	litions for safe storag	ge, including any ir	ncompatibilities
Cond	itions for safe storage	Store locked Keep tightly o	•
Mater	rials to avoid		with the following product types:

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Strong oxidizing agents



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Section 8: Exposure controls/personal protection

Control parameters

Occupational Exposure Limits

Components	CAS-No.	Value type (Form of exposure)	Control parame- ters / Permissible concentration	Basis
Cellulose	9004-34-6	PEL (long term)	10 mg/m3	SG OEL
		TWA	10 mg/m3	ACGIH
Losartan	124750-99-8	TWA	100 µg/m3 (OEB 2)	Internal
Starch	9005-25-8	PEL (long term)	10 mg/m3	SG OEL
		TWA	10 mg/m3	ACGIH
Hydrochlorothiazide	58-93-5	TWA	100 µg/m3 (OEB 2)	Internal

Appropriate engineering : control measures	Use feasible engineering controls to minimize exposure to compound. All engineering controls should be implemented by facility design and operated in accordance with GMP principles to protect products, workers, and the environment.
Individual protection measures	s, such as personal protective equipment (PPE)
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.
Skin protection :	Work uniform or laboratory coat.
Respiratory protection :	If adequate local exhaust ventilation is not available or expo- sure assessment demonstrates exposures outside the rec- ommended guidelines, use respiratory protection.
Filter type : Hand protection	Particulates type
Material :	Chemical-resistant gloves

Section 9: Physical and chemical properties

Appearance	:	powder
Colour	:	yellow
Odour	:	odourless
Odour Threshold	:	No data available



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	рН		:	No data available	9
	Melting	point/freezing point	:	No data available	9
	Initial bo range	piling point and boiling	:	No data available	
	Flash p	oint	:	Not applicable	
	Evapora	ation rate	:	Not applicable	
	Flamma	ability (solid, gas)	:	May form explosi dling or other me	ve dust-air mixture during processing, han- ans.
	Flamma	ability (liquids)	:	No data available	9
		explosion limit / Upper bility limit	:	No data available	3
		explosion limit / Lower bility limit	:	No data available	3
	Vapour	pressure	:	Not applicable	
	Relative	e vapour density	:	Not applicable	
	Relative	e density	:	No data available	9
	Density		:	No data available	9
	Solubilit Wate	ry(ies) er solubility	:	No data available)
	Partitior octanol/	n coefficient: n-	:	Not applicable	
		nition temperature	:	No data available	9
	Decomp	position temperature	:	No data available)
	Viscosit Visc	y osity, kinematic	:	Not applicable	
	Explosiv	ve properties	:	Not explosive	
	Oxidizir	ng properties	:	The substance of	r mixture is not classified as oxidizing.
	Particle Particle	characteristics size	:	No data available)



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Section 10: Stability and reactivity

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

Section 11: Toxicological information

Information on likely routes of exposure	:	Inhalation Skin contact
•		Ingestion
		Eye contact

Acute toxicity

Not classified based on available information.

Product:

Acute oral toxicity	:	Acute toxicity estimate: > 2,000 mg/kg
		Method: Calculation method

Components:

Cellulose:

Acute oral toxicity	:	LD50 (Rat): > 5,000 mg/kg
Acute inhalation toxicity	:	LC50 (Rat): > 5.8 mg/l Exposure time: 4 h Test atmosphere: dust/mist
Acute dermal toxicity	:	LD50 (Rabbit): > 2,000 mg/kg
Losartan:		
Acute oral toxicity	:	LD50 (Mouse): 1,257 - 1,590 mg/kg
		LDLo (Rat): 200 mg/kg
		LDLo (Mouse): 400 mg/kg
Starch:		
Acute oral toxicity	:	LD50 (Rat): > 5,000 mg/kg
Acute dermal toxicity	:	LD50 (Rabbit): > 2,000 mg/kg



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Hydr	ochlorothiazide:				
Acute	e oral toxicity	:	LD50 (Rat): >	2,750 mg/kg	
			LD50 (Mouse): > 2,830 mg/kg	
	e toxicity (other routes of nistration)	:		90 mg/kg oute: Intravenous	
			LD50 (Mouse Application Re): 590 mg/kg oute: Intravenous	
II Skin	corrosion/irritation				
	lassified based on availa	ble	information.		
Com	ponents:				
Losa	rtan:				
Spec		:	Rabbit	19	
Resu	IT	:	Mild skin irrita	tion	
	ochlorothiazide:				
Spec Resu		:	Rabbit No skin irritati	a n	
	o us eye damage/eye irri es serious eye damage.	tati	on		
	ponents:				
Losa	rtan:				
Spec	ies	:	Rabbit		
Resu	lt	:	Severe irritation	on	
Starc	h:				
Spec		:	Rabbit		
Resu	lt	:	No eye irritatio	on	
Hydr	ochlorothiazide:				
Spec		:	Rabbit		
Resu		:	Mild eye irritat	tion	
Resp	iratory or skin sensitis	atic	n		
Skin	sensitisation				
Mayo	cause an allergic skin rea	actio	on.		
Resn	iratory sensitisation				

Respiratory sensitisation

Not classified based on available information.



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<u>Com</u>	oonents:					
Speci	Type sure routes es ssment	: Maximisatio : Skin contac : Guinea pig : Probability o : positive				
Starc Test ⊺ Expos Speci Resul	Гуре sure routes es	: Maximisatio : Skin contac : Guinea pig : negative				
Not cl	cell mutagenicity assified based on av	ailable information.				
<u>Comp</u>	oonents:					
Cellu Geno	lose: toxicity in vitro	: Test Type: I Result: nega	Bacterial reverse mutation assay (AMES) ative			
		Test Type: I Result: nega	n vitro mammalian cell gene mutation test ative			
Geno	toxicity in vivo	cytogenetic Species: Mo Application	 Test Type: Mammalian erythrocyte micronucleus test (in cytogenetic assay) Species: Mouse Application Route: Ingestion Result: negative 			
II Losa	rtan:					
	toxicity in vitro	: Test Type: i Result: nega	n vitro assay ative			
			n vitro mammalian cell gene mutation test n: Chinese hamster ovary cells ative			
		Test Type: / Result: neg	Alkaline elution assay ative			
		Test Type: (Result: nega	Chromosomal aberration ative			
Geno	toxicity in vivo	: Test Type: (Chromosomal aberration			



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Starc Genc	ch: otoxicity in vitro	:	Test Type: Ba Result: negat	acterial reverse mutation assay (AMES)
II Hydr	ochlorothiazide:			
	otoxicity in vitro	:	Test Type: Ba Result: negat	acterial reverse mutation assay (AMES)
				nromosomal aberration Chinese hamster ovary cells ive
				ster chromatid exchange assay Chinese hamster ovary cells /e
			Test Type: in Test system: Result: positiv	mouse lymphoma cells
Geno	otoxicity in vivo	:	Test Type: Ch Species: Chir Cell type: Bor Result: negat	ne marrow
			Test Type: in Species: Mou Cell type: Bor Result: negat	se ne marrow
	n cell mutagenicity - ssment	:	Weight of evid cell mutagen.	dence does not support classification as a germ
	inogenicity lassified based on ava	ilable i	nformation.	
<u>Com</u>	ponents:			
Cellu	llose:			
Spec	ies cation Route	:	Rat Ingestion	
	sure time	:	72 weeks	
Resu		:	negative	
Losa	rtan:			
Spec		:	Mouse	
Appli	cation Route	:	Oral	
Expo Dose	sure time	:	92 weeks 200 mg/kg bo	dv weight
Resu		:	negative	ay worgin



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	cation Route sure time	: Rat : Oral : 105 wee : 270 mg/l : negative	ks kg body weight
Hydr	ochlorothiazide:		
Spec Appli	ies cation Route sure time	: Mouse, f : Oral : 2 Years : negative	emale
	cation Route sure time	: Mouse, r : Oral : 2 Years : equivoca	
	cation Route sure time	: Rat, male : Oral : 2 Years : negative	e and female
May o May o <u>Com</u>	oductive toxicity damage the unborn ch cause harm to breast-f ponents:		
	Ilose: ts on fertility	Species:	on Route: Ingestion
Effec ment	ts on foetal develop-	Species:	on Route: Ingestion
Losa	rtan:		
Effec	ts on fertility	Species: Applicati Fertility: Result: fo	e: Fertility Rat, female on Route: Oral _OAEL: 200 mg/kg body weight emale reproductive effects : Maternal toxicity observed.
Effec ment	ts on foetal develop-	: Test Typ Species:	e: Development Rabbit on Route: Oral



dy weight
dv weight
dy weight on the off- c doses, No
weight
nt, based on
actation peri-
dy weight
dy weight
or www. ac

STOT - single exposure

Not classified based on available information.

STOT - repeated exposure

May cause damage to organs (Kidney, Parathyroid gland) through prolonged or repeated exposure.

May cause damage to organs (Blood, Cardio-vascular system, Stomach, Kidney) through prolonged or repeated exposure if swallowed.



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Com	ponents:		
Losa	rtan:		
	sure routes	: Ingestion	
Targe	et Organs ssment	: Blood, Cardio-	vascular system, Stomach, Kidney mage to organs through prolonged or repeated
	ochlorothiazide:		
	et Organs ssment	 Kidney, Parath Causes damage exposure. 	yroid gland ge to organs through prolonged or repeated
Repe	ated dose toxicity		
Com	ponents:		
Cellu	lose:		
Spec		: Rat	
NOA		: >= 9,000 mg/kg	g
	cation Route sure time	: Ingestion : 90 Days	
Losa	rtan:		
Spec		: Rat	
LOAE		: 15 mg/kg	
Applic	cation Route sure time	: Oral : 309 d	
	per of exposures	: daily	
	et Organs		Cardio-vascular system, Stomach
Spec	ies	: Dog	
NOAI		: 5 mg/kg	
	cation Route	: Oral	
Expo Symp	sure time otoms	: 1 Months : Salivation, Von	niting
Spec	ies	: Dog	
LÒAE	EL	: 25 mg/kg	
	cation Route	: Oral	
	sure time	: 53 Weeks	
Symp	per of exposures ptoms	: daily : Salivation, Von	niting
Starc	:h:		
Spec	ies	: Rat	
NOA	EL	: >= 2,000 mg/kg	g
	cation Route	: Skin contact	
	sure time	: 28 Days	videling 410
Metho	uu	: OECD Test Gu	



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Hydrochlorothiazide:		
Species	:	Rat, male and female
LOAEL		10 mg/kg
Application Route	:	Oral
Exposure time	:	2 yr
Target Organs	:	Kidney, Parathyroid gland
Species	:	Mouse, male and female
NOAEL		300 - 550 mg/kg
Application Route	:	Oral
Exposure time	:	2 yr
Remarks	:	No significant adverse effects were reported
Species	:	Dog
	:	50 - 200 mg/kg
Application Route	:	Oral
Exposure time	:	9 Months
Target Organs	:	Parathyroid gland

Aspiration toxicity

Not classified based on available information.

Components:

Losartan:

No aspiration toxicity classification

Hydrochlorothiazide:

No aspiration toxicity classification

Experience with human exposure

Components:

Losartan: Eye contact Ingestion	:	Symptoms: Eye irritation Symptoms: hypotension, tachycardia
Hydrochlorothiazide: Eye contact Ingestion	:	Symptoms: Eye irritation Symptoms: Dizziness, Headache, Fatigue, Nausea, Ab- dominal pain, hypotension, dry mouth, electrolyte imbalance, eye pain



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Section 12: Ecological information Toxicity **Components:** Cellulose: Toxicity to fish : LC50 (Oryzias latipes (Japanese medaka)): > 100 mg/l Exposure time: 48 h Remarks: Based on data from similar materials Losartan: Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): > 929 mg/l Exposure time: 96 h Method: FDA 4.11 Toxicity to daphnia and other : EC50 (Daphnia magna (Water flea)): 331 mg/l aquatic invertebrates Exposure time: 48 h Method: OECD Test Guideline 202 Toxicity to algae/aquatic NOEC (Microcystis aeruginosa (blue-green algae)): 949 mg/l plants Exposure time: 10 d Method: FDA 4.01 NOEC (Selenastrum capricornutum (green algae)): 143 mg/l Exposure time: 10 d Method: FDA 4.01 Toxicity to fish (Chronic tox-NOEC (Pimephales promelas (fathead minnow)): 10 mg/l icity) Exposure time: 32 d Method: OECD Test Guideline 210 Toxicity to daphnia and other : NOEC (Daphnia magna (Water flea)): 100 mg/l aquatic invertebrates (Chron-Exposure time: 21 d ic toxicity) Method: OECD Test Guideline 211 Hydrochlorothiazide: Toxicity to fish LC50 (Pimephales promelas (fathead minnow)): > 500 mg/l Exposure time: 96 h Toxicity to daphnia and other : EC50 (Daphnia magna (Water flea)): > 500 mg/l aquatic invertebrates Exposure time: 48 h Persistence and degradability **Components:** Cellulose: Biodegradability Result: Readily biodegradable. :



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Losa			
Stabi	Stability in water		< 10 %(5 d)
Hydr	ochlorothiazide:		
Stabi	lity in water	: Hydrolysis:	46.2 %(96 h)
II Bioa	ccumulative potential		
<u>Com</u>	ponents:		
	rtan: ion coefficient: n- iol/water	: log Pow: 1.2	
	lity in soil ata available		
	r adverse effects ata available		
Section 1	3: Disposal considera	itions	
Disp	osal methods		
•	e from residues		ose of waste into sewer.
Conta	aminated packaging	: Empty conta dling site for	n accordance with local regulations. iners should be taken to an approved waste han- recycling or disposal. ise specified: Dispose of as unused product.

Section 14: Transport information

International Regulations

UNRTDG

UN number UN proper shipping name Transport hazard class(es) Subsidiary risk Packing group Labels		Not applicable Not applicable Not applicable Not applicable Not applicable Not applicable
Environmentally hazardous	:	no
IATA-DGR UN/ID No. UN proper shipping name Class Subsidiary risk Packing group Labels Packing instruction (cargo aircraft)		Not applicable Not applicable Not applicable Not applicable Not applicable Not applicable Not applicable



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Packin ger aire	g instruction (passen- craft)	:	Not applicable	
Class Subsid Packin Labels EmS C	mber oper shipping name iary risk g group		Not applicable Not applicable Not applicable Not applicable Not applicable Not applicable Not applicable Not applicable	
	port in bulk according plicable for product as	-		
Specia	al precautions for use	r		

Not applicable

Section 15: Regulatory information

Safety, health and environmental regulations specific for the product in question

Workplace Safety and Health Act and Workplace Safety and Health (General Provisions) Regulations: This product is subjected to the SDS, labelling, PEL and other requirements in the Act/Regulations.
Environmental Protection and Management Act and : Not applicable
Environmental Protection and Management (Hazard-

ous Substances) Regulations

Fire Safety (Petroleum and Flammable Materials) : Not applicable Regulations

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

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

Section 16: Other information

Revision Date	:	06.04.2024
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 Agen- cy, http://echa.europa.eu/

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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Date	format	: dd.mm.yyyy		
Full t	ext of other abbrevia			

ACGIH SG OEL	USA. ACGIH Threshold Limit Values (TLV) Singapore. Workplace Safety and Health (General Provisions) Regulations - First Schedule Permissible Exposure Limits of Toxic Substances.
ACGIH / TWA SG OEL / PEL (long term)	8-hour, time-weighted average Permissible Exposure Level (PEL) Long Term

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 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

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.