

Vers 4.1			-	S Number: 071-00016	Date of last issue: 2020/03/23 Date of first issue: 2014/09/30			
1. PF	1. PRODUCT AND COMPANY IDENTIFICATION							
	Chemi	cal product name	:	Losartan / Hydro	chlorothiazide Formulation			
		er's company name , a any name of supplier		Idress and phone number : Organon & Co.				
	Addres	s	:	30 Hudson Street, 33nd floor Jersey City, New Jersey, U.S.A 07302				
	Teleph	one	:	551-430-6000				
	E-mail	address	:	EHSSTEWARD	⊉organon.com			
	Emerg	ency telephone number	r:	215-631-6999				
		nmended use of the cl			ons on use			
	Recom	imended use	:	Pharmaceutical				
2. H/	AZARD	S IDENTIFICATION						
	GHS c	lassification of chemi	cal p	product				
		s eye damage/eye irri-						
	Skin se	ensitisation	:	Category 1				
	Reproc	luctive toxicity	:	Category 1B				
	Effects	on or via lactation						
		c target organ toxicity - ed exposure	:	Category 2 (Kidn	ey, Parathyroid gland)			
		c target organ toxicity - ed exposure (Oral)	:	Category 2 (Bloo	d, Cardio-vascular system, Stomach, Kidney)			
	GHS la	abel elements						
	Hazaro	l pictograms	:					
	Signal	word	:	Danger	▼			
	Hazarc	l statements	:	H318 Causes se H360D May dam H362 May cause H373 May cause	an allergic skin reaction. rious eye damage. age the unborn child. harm to breast-fed children. damage to organs (Kidney, Parathyroid rolonged or repeated exposure.			



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			use damage to organs (Blood, Cardio-vascular ach, Kidney) through prolonged or repeated ex- lowed.
Preca	utionary statements	P202 Do not I and understoo P260 Do not I P263 Avoid c P264 Wash s P270 Do not o P272 Contam the workplace	preathe dust. ontact 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 s. rotective gloves/ protective clothing/ eye protec-
		P305 + P351 water for seve and easy to d CENTER/ doo P308 + P313 attention. P333 + P313 vice/ attentior	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	e of contents/ container to an approved waste
	hazards which do no		
	tant symptoms and out of the emergency as- d	the skin.	dust can cause mechanical irritation or drying of losive dust-air mixture during processing, han- means.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Components

Chemical name	CAS-No.	Concentration (% w/w)	ENCS No.
Cellulose	9004-34-6	>= 30 - < 40	
Losartan	124750-99-8	>= 20 - < 30	
Starch	9005-25-8	>= 10 - < 20	8-98
Starch	9005-25-6	>= 10 - < 20	0-90



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Hydrochlorothiazide		58-93-5	>= 1 - < 10					
4. FIRS	ST AID MEASURES							
Ge	eneral advice	vice immediately	ccident or if you feel unwell, 7. s persist or in all cases of do					
lf i	nhaled	: If inhaled, remov Get medical atte						
In case of skin contact		: In case of conta of water. Remove contam Get medical atte Wash clothing b	ct, immediately flush skin wi inated clothing and shoes. ntion.	th soap and plenty				
In case of eye contact		for at least 15 m If easy to do, rei	nove contact lens, if worn.	ith plenty of water				
lf s	swallowed	: If swallowed, DC Get medical atte	Get medical attention immediately. If swallowed, DO NOT induce vomiting. Get medical attention. Rinse mouth thoroughly with water.					
Most important symptoms and effects, both acute and delayed		 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 repeating exposure. Contact with dust can cause mechanical irritation or drying 						
Pr	otection of first-aiders	and use the reco	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).					
No	otes to physician	•	: Treat symptomatically and supportively.					
5. FIRE	FIGHTING MEASURES							
Sı	itable extinguishing media	: Water spray Alcohol-resistan Carbon dioxide Dry chemical						
	nsuitable extinguishing edia	: None known.						
Sp	becific hazards during fire- hting	concentrations, potential dust ex	g dust; fine dust dispersed in and in the presence of an ig plosion hazard. hbustion products may be a	nition source is a				
Ha uc	azardous combustion prod- ts	: Carbon oxides Chlorine compo Nitrogen oxides Chlorine compo	(NOx)					



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			Sulphur 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 o so.		
	ial protective equipment efighters	:	Evacuate area.In the event of fire, wear self-contained breathing appara Use personal protective equipment.		
6. ACCID	ENTAL RELEASE MEAS	SUF	RES		
tive e	onal precautions, protec- quipment and emer- y procedures	:	Follow safe handl	tective equipment. ling advice (see section 7) and personal pro- t recommendations (see section 8).	
Environmental precautions Methods and materials for containment and cleaning up		:	Retain and dispos	akage or spillage if safe to do so. se of contaminated wash water. should be advised if significant spillages	
		:	tainer for disposa Avoid dispersal of with compressed Dust deposits sho es, as these may leased into the att Local or national posal of this mate employed in the of mine which regula Sections 13 and f	f dust in the air (i.e., clearing dust surfaces	
7. HANDL	ING AND STORAGE				

Handling

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	: If sufficient ventilation is unavailable, use with local exhaust ventilation.	
Advice on safe handling	 Avoid contact during pregnancy and while nursing. Do not get on skin or clothing. Do not breathe dust. Do not swallow. Do not get in eyes. Wash skin thoroughly after handling. Handle in accordance with good industrial hygiene and safet 	
	practice, based on the results of the workplace exposure as-	



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	Avoidance of contact Hygiene measures		eep container cl eep away from h ake precautiona o not eat, drink o ake care to prev avironment. kidizing agents exposure to che shing systems ace. hen using do no orkplace. ash contaminated wo prkplace. ash contaminated perfective ope agineering contro opropriate dego	heration and accumulation. osed when not in use. heat and sources of ignition. ry measures against static discharges. or smoke when using this product. ent spills, waste and minimize release to the emical is likely during typical use, provide eye and safety showers close to the working ot eat, drink or smoke. rk clothing should not be allowed out of the ed clothing before re-use. ration of a facility should include review of ols, proper personal protective equipment, wning and decontamination procedures, monitoring, medical surveillance and the
Stora	ge			
	tions for safe storage ials to avoid	St Ke St	ore locked up. eep tightly close ore in accordan	ce with the particular national regulations. the following product types:
Packa	ging material	: Ur	nsuitable materi	al: None known.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Threshold limit value and permissible exposure limits for each component in the work environment

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

Engineering 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.



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Perso	onal protective equip	nent					
Respi	Respiratory protection Filter type Hand protection Material Eye protection Skin and body protection		 If adequate local exhaust ventilation is not available or exposure assessment demonstrates exposures outside the recommended guidelines, use respiratory protection. Particulates type Chemical-resistant gloves 				
Ma							
Eye p			fety glasses with side shields or goggles. rk environment or activity involves dusty conditions, aerosols, wear the appropriate goggles. aceshield or other full face protection if there is a for direct contact to the face with dusts, mists, or				
Skin a			iform or laboratory coat.				
9. PHYSIC	AL AND CHEMICAL	PROPERTIES					
Physical state		: powder					

T Hysical state	•	powder
Colour	:	yellow
Odour	:	odourless
Odour Threshold	:	No data available
Melting point/freezing point	:	No data available
Boiling point, 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
Lower explosion limit and uppe Upper explosion limit / Upper flammability limit		xplosion limit / flammability limit No data available
Lower explosion limit / Lower flammability limit	:	No data available
Flash point	:	Not applicable
Decomposition temperature	:	No data available
рН	:	No data available
Evaporation rate	:	Not applicable
Auto-ignition temperature	:	No data available
Viscosity Viscosity, kinematic	:	Not applicable



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Par	ubility(ies) Water solubility tition coefficient: n- anol/water	:	No data available Not applicable	9
Vap	oour pressure	:	Not applicable	
	nsity and / or relative dens ative density	sity :	No data available	9
Der	nsity	:	No data available	9
Rel	ative vapour density	:	Not applicable	
Exp	losive properties	:	Not explosive	
Oxi	dizing properties	:	The substance o	r mixture is not classified as oxidizing.
	ticle characteristics ticle size	:	No data available	9

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.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of	:	Inhalation
exposure		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



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<u>Comp</u>	onents:				
Cellulo	ose:				
Acute	oral toxicity	:	LD50 (Rat): > 5,0	00 mg/kg	
Acute	inhalation toxicity	:	LC50 (Rat): > 5.8 mg/l Exposure time: 4 h Test atmosphere: dust/mist		
Acute	dermal toxicity	:	LD50 (Rabbit): > 3	2,000 mg/kg	
Losart	an:				
Acute	oral toxicity	:	LD50 (Mouse): 1,	257 - 1,590 mg/kg	
			LDLo (Rat): 200 r	ng/kg	
			LDLo (Mouse): 40	00 mg/kg	
Starch				00 ma/ka	
	oral toxicity	•	LD50 (Rat): > 5,0		
Acute	dermal toxicity	:	LD50 (Rabbit): > 2	2,000 mg/kg	
Hydro	chlorothiazide:				
Acute	oral toxicity	:	LD50 (Rat): > 2,7	50 mg/kg	
			LD50 (Mouse): >	2,830 mg/kg	
	toxicity (other routes of stration)	:	LD50 (Rat): 990 r Application Route		
			LD50 (Mouse): 59 Application Route		
	orrosion/irritation				
	assified based on availa	ble	information.		
	onents:				
Losart Specie		:	Rabbit		
Result		:	Mild skin irritation		
•	chlorothiazide:				
Specie Result		:	Rabbit No skin irritation		
Result		: : tati	No skin irritation		

Causes serious eye damage.



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Com	oonents:				
Losa	tan:				
Speci		: Rabbi	t		
Resul		: Sever	e irritation		
Starc	h:				
Speci Resul		: Rabbi : No ey	t e irritation		
Hydro	ochlorothiazide:				
Speci		: Rabbi	-		
Resul	t	: Mild e	ye irritation		
Resp	iratory or skin sens	tisation			
-	sensitisation				
May c	ause an allergic skin	reaction.			
-	iratory sensitisation assified based on ava		ation.		
<u>Comp</u>	oonents:				
Losai	rtan:				
Test 7		: Maxin	nisation Te	st	
	sure routes		ontact		
Speci Asses	es ssment	: Guine · Proba		dence of skin sensitisation in humans	
Resul		: positiv			
Starc	h:				
Test 7			nisation Te	st	
	sure routes		ontact		
Speci Resul		: Guine : negati			
	cell mutagenicity				
	assified based on ava conents:	allable informa	ation.		
Cellu					
	toxicity in vitro	· Tact T	vne: Racte	rial reverse mutation assay (AMES)	
Geno			t: negative	na reverse mutation assay (AIVIES)	
			ype: In vitr t: negative	o mammalian cell gene mutation test	
Geno	toxicity in vivo			nalian erythrocyte micronucleus test (in vivo	
		cytoge	enetic assa		
			es: Mouse	e: Ingestion	
		Аррію		s. Ingestion	



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		Result: neg	ative
Losai	rtan:		
	toxicity in vitro	: Test Type: Result: neg	in vitro assay ative
			In vitro mammalian cell gene mutation test n: Chinese hamster ovary cells ative
		Test Type: Result: neg	Alkaline elution assay ative
		Test Type: Result: neg	Chromosomal aberration ative
Geno	toxicity in vivo	: Test Type: Result: neg	Chromosomal aberration ative
Starc	h:		
Geno	toxicity in vitro	: Test Type: Result: neg	Bacterial reverse mutation assay (AMES) ative
Hydro	ochlorothiazide:		
-	toxicity in vitro	: Test Type: Result: neg	Bacterial reverse mutation assay (AMES) ative
			Chromosomal aberration n: Chinese hamster ovary cells ative
			sister chromatid exchange assay n: Chinese hamster ovary cells itive
			in vitro assay n: mouse lymphoma cells itive
Geno	toxicity in vivo	Species: C	Chromosomal aberration ninese hamster one marrow ative
		Species: M	one marrow
	cell mutagenicity -	: Weight of e cell mutage	vidence does not support classification as a germ



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Carci	nogenicity		
	assified based on ava	ilable information	
Comp	oonents:		
Cellul	lose:		
Specie	es	: Rat	
	ation Route	: Ingestion	
	sure time	: 72 weeks	
Resul	t	: negative	
Losar	tan:		
Specie	es	: Mouse	
	ation Route	: Oral	
	sure time	: 92 weeks	
Dose		: 200 mg/kg bo	ly weight
Resul	t	: negative	
Specie	es	: Rat	
	ation Route	: Oral	
Expos	sure time	: 105 weeks	
Dose		: 270 mg/kg bo	ly weight
Resul	t	: negative	
Hydro	ochlorothiazide:		
Specie		: Mouse, female	
	ation Route	: Oral	
	sure time	: 2 Years	
Resul		: negative	
Specie	es	: Mouse, male	
Applic	ation Route	: Oral	
Expos	sure time	: 2 Years	
Resul	t	: equivocal	
Specie		: Rat, male and	female
	ation Route	: Oral	
	sure time	: 2 Years	
Resul	t	: negative	
Repro	oductive toxicity		
May d	lamage the unborn chi ause harm to breast-fo		
	oonents:		
Cellul		_ _	
Effect	s on fertility		e-generation reproduction toxicity study
		Species: Rat	uter la mestica
		Application Ro	
		Result: negati	/e
	s on foetal develop-	: Test Type: Fe	tility/early embryonic development



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ment			Species: Rat Application Route: Ingestion Result: negative		
Losa	rtan:				
Effec	ts on fertility	Result: female	female		
Effec ment	ts on foetal develop-	Developmenta Result: Embry	bit oute: Oral city Maternal: NOAEL: 10 mg/kg body weight al Toxicity: NOAEL F1: 20 mg/kg body weight yotoxic effects and adverse effects on the off- letected only at high maternally toxic doses, No		
Repro sessr	oductive toxicity - As- ment	: Clear evidence animal experi	e of adverse effects on development, based on ments.		
		Studies indica od	ating a hazard to babies during the lactation peri-		
Hydr	ochlorothiazide:				
-	ts on fertility	Application R	male and female oute: oral (feed) EL: 4 mg/kg body weight		
		Application R	ise, male and female oute: oral (feed) EL: 100 mg/kg body weight		
Effec ment	ts on foetal develop-		ISE		
		Test Type: De Species: Rat	evelopment		



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			Route: Oral ntal Toxicity: NOAEL: 1,000 mg/kg body weight eratogenic effects
	Γ - single exposure lassified based on ava	ailable information.	
	- repeated exposur cause damage to orga		vroid gland) through prolonged or repeated expo-
	cause damage to orga d or repeated exposu		vascular system, Stomach, Kidney) through pro-
Com	ponents:		
Losa		1 <i>d</i>	
Targe	sure routes et Organs ssment		io-vascular system, Stomach, Kidney damage to organs through prolonged or repeated
Hydro	ochlorothiazide:		
-	et Organs ssment		athyroid gland nage to organs through prolonged or repeated
Repe	ated dose toxicity		
<u>Com</u>	ponents:		
Cellu	lose:		
		: Rat : >= 9,000 mg : Ingestion : 90 Days	g/kg
Losa	rtan:		
Expos Numb		: Rat : 15 mg/kg : Oral : 309 d : daily : Blood, Kidne	ey, Cardio-vascular system, Stomach
	EL cation Route sure time	: Dog : 5 mg/kg : Oral : 1 Months : Salivation, \	/omiting
Speci LOAE Applic		: Dog : 25 mg/kg : Oral	



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Expos	ure time	: 53 Weeks	
	er of exposures	: daily	
Sympt		: Salivation	, Vomiting
Starcl			
Specie		: Rat	
NOAE		: >= 2,000	na/ka
-	ation Route	: Skin conta	
	ure time	: 28 Days	
Metho			st Guideline 410
Hydro	chlorothiazide:		
Specie	es	: Rat, male	and female
LOAE		: 10 mg/kg	
	ation Route	: Oral	
	ure time	: 2 yr	
Targe	t Organs	: Kidney, P	arathyroid gland
Specie		: Mouse, m	ale and female
NOAE		: 300 - 550	mg/kg
	ation Route	: Oral	
	ure time	: 2 yr	
Rema	rks	: No signific	ant adverse effects were reported
Specie	es	: Dog	
Annlia	ation Pouto	: 50 - 200 n : Oral	ng/kg
	ation Route ure time	: 9 Months	
	t Organs	: Parathyro	id gland
Aspira	ation toxicity		
-	assified based on ava	lable information	
<u>Comp</u>	onents:		
Losar	tan:		
No as	piration toxicity class	cation	
Hydro	chlorothiazide:		
No as	piration toxicity class	cation	
Exper	ience with human e	posure	
<u>Comp</u>	onents:		
Losar	tan:		
Eye co	ontact	: Symptom	s: Eye irritation
Ingest	ion	: Symptom	s: hypotension, tachycardia
11	able setting the		
Hydro	chlorothiazide:		



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Eye co	ontact	:	Symptoms: Ey	e irritation		
Ingest	Ingestion		: Symptoms: Dizziness, Headache, Fatigue, Nausea, Ab- dominal pain, hypotension, dry mouth, electrolyte imbala eye pain			
12. ECOLO	OGICAL INFORMATION	N				
Ecoto	xicity					
<u>Comp</u>	onents:					
Cellul	ose:					
Toxicit	ty to fish	:	Exposure time	latipes (Japanese medaka)): > 100 mg/l : 48 h ed on data from similar materials		
Losar	tan:					
Toxicit	ty to fish	:	LC50 (Oncorh Exposure time Method: FDA			
	ty to daphnia and other c invertebrates	:	Exposure time	a magna (Water flea)): 331 mg/l : 48 h D Test Guideline 202		
Toxicit plants	ty to algae/aquatic	:	NOEC (Microc Exposure time Method: FDA			
			NOEC (Selena Exposure time Method: FDA			
Toxicit icity)	ty to fish (Chronic tox-	:	Exposure time	hales promelas (fathead minnow)): 10 mg/l : 32 d D Test Guideline 210		
	ty to daphnia and other c invertebrates (Chron- city)	:	Exposure time	ia magna (Water flea)): 100 mg/l : 21 d D Test Guideline 211		
Hydro	chlorothiazide:					
•	ty to fish	:	LC50 (Pimeph Exposure time	ales promelas (fathead minnow)): > 500 mg/l : 96 h		
	ty to daphnia and other c invertebrates	:	EC50 (Daphni Exposure time	a magna (Water flea)): > 500 mg/l : 48 h		



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Persi	istence and degradabi	ility		
Com	ponents:			
Cellu	llose:			
Biode	egradability	:	Result: Readily b	iodegradable.
Losa	rtan:			
Stabi	lity in water	:	Hydrolysis: < 10 9	%(5 d)
Hydr	ochlorothiazide:			
Stabi	lity in water	:	Hydrolysis: 46.2 9	%(96 h)
Bioa	ccumulative potential			
Com	ponents:			
Losa	rtan:			
	ion coefficient: n- ol/water	:	log Pow: 1.2	
Mobi	lity in soil			
No da	ata available			
	rdous to the ozone lay	yer		
Othe	r adverse effects			
No da	ata available			
	DSAL CONSIDERATIO	NS		

Disposal methods	
Waste from residues	: Dispose of in accordanc

Waste from residues	:	Dispose of in accordance with local regulations.
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.

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.



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National Regulations

Refer to section 15 for specific national regulation.

15. REGULATORY INFORMATION

Related Regulations

Fire Service Law

Not applicable to dangerous materials / designated flammables.

Chemical Substance Control Law

Not applicable for Specified Chemical Substance, Monitoring Chemical Substance and Priority Assessment Chemical Substance.

Industrial Safety and Health Law

Harmful Substances Prohibited from Manufacture

Not applicable

Harmful Substances Required Permission for Manufacture

Not applicable

Substances Prevented From Impairment of Health

Not applicable

Circular concerning Information on Chemicals having Mutagenicity - Annex 2: Information on Existing Chemicals having Mutagenicity

Not applicable

Circular concerning Information on Chemicals having Mutagenicity - Annex 1: Information on Notified Substances having Mutagenicity

Not applicable

Substances Subject to be Notified Names

Not applicable

Substances Subject to be Indicated Names

Not applicable

Ordinance on Prevention of Hazards Due to Specified Chemical Substances

Not applicable

Ordinance on Prevention of Lead Poisoning

Not applicable

Ordinance on Prevention of Tetraalkyl Lead Poisoning

Not applicable

Ordinance on Prevention of Organic Solvent Poisoning

Not applicable

Enforcement Order of the Industrial Safety and Health Law - Attached table 1 (Dangerous Substances)

Not applicable

Poisonous and Deleterious Substances Control Law Not applicable



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	Act on Confirmation, etc. of Release Amounts of Specific Chemical Substances in the En- vironment and Promotion of Improvements to the Management Thereof Not applicable								
	High Pressure Gas Safety Act Not applicable								
	Explosive Control Law Not applicable								
	Vessel Safety Law Not regulated as a dangerous good								
	Aviation Law Not regulated as a dangerous good								
	Marine	Pollution and Sea Di	sas	ter Prevention etc	: Law				
	Bulk tra	ansportation	:	Not classified as i	noxious liquid substance				
	Pack tr	ansportation	:	Not classified as i	narine pollutant				
	Narcotics and Psychotropics Control Act Narcotic or Psychotropic Raw Material (Export / Import Permission) Not applicable								
	Specific Narcotic or Psychotropic Raw Material (Export / Import permission) Not applicable								
	Waste Disposal and Public Cleansing Law Industrial waste								
	The co	mponents of this pro	duc	t are reported in t	he following inventories:				
	AICS			not determined					
			•	not determined					
	DSL		:	not determined					
	DSL IECSC		:						
16.	IECSC	INFORMATION	:	not determined					
16.	IECSC	INFORMATION r information	:	not determined					
16.	IECSC OTHER Furthe Source		:	not determined not determined	data, data from raw material SDSs, OECD arch results and European Chemicals Agen- opa.eu/				
16.	IECSC OTHER Furthe Source compile	r information as of key data used to be the Safety Data	· : :	not determined not determined Internal technical eChem Portal sea	rch results and European Chemicals Agen-				

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



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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; 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.

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