SAFETY DATA SHEET

Revision Date:

Version



Date of last issue: 2020/10/10

Loratadine / Montelukast Formulation

SDS Number:

Version 2.2	Revision Date: 2021/04/09		S Number: 74878-00005	Date of last issue: 2020/10/10 Date of first issue: 2019/07/08
1. PRODU	CT AND COMPANY IDI	ENT	IFICATION	
Chem	ical product name	:	Loratadine / M	ontelukast Formulation
Supp	lier's company name, a	addr	ess and phone	number
Comp	eany name of supplier	:	Organon & Co	
Addre	255	:	30 Hudson Str Jersey City, N	eet, 33nd floor ew Jersey, U.S.A 07302
Telep	hone	:	551-430-6000	
E-mai	il address	:	EHSSTEWAR	D@organon.com
Emerg	gency telephone number	r :	215-631-6999	
Reco	mmended use of the cl	nem	ical and restric	tions on use
Recor	mmended use	:	Pharmaceutica	al
2 HA7AR	DS IDENTIFICATION			
GHS	classification of chemi	cal I	product	
Repro	oductive toxicity	:	Category 2	
Short- hazar	-term (acute) aquatic d	:	Category 2	
Long- hazar	term (chronic) aquatic d	:	Category 2	
GHS	label elements			
Hazar	rd pictograms	:		¥
Signa	l word	:	Warning	•
Hazar	rd statements	:		ted of damaging fertility. aquatic life with long lasting effects.
Preca	utionary statements	:	Prevention:	
			P201 Obtain s P202 Do not h and understoo P273 Avoid re	lease to the environment. otective gloves/ protective clothing/ eye protec-
			Response:	
			P308 + P313 I	F exposed or concerned: Get medical advice/



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		attention. P391 Collec	t spillage.
		Storage: P405 Store	locked up.
		Disposal: P501 Dispos disposal pla	se of contents/ container to an approved waste nt.
Othe	er hazards which do not	result in classifi	cation
•	of the emergency as-	Contact with the skin. May form co	t with the eyes can lead to mechanical irritation. dust can cause mechanical irritation or drying of mbustible dust concentrations in air during pro- ndling or other means.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture	:	Mixture
---------------------	---	---------

Components

Chemical name	CAS-No.	Concentration (% w/w)	ENCS No.
Cellulose	9004-34-6	>= 40 - < 50	
Montelukast	151767-02-1	>= 1 - < 10	
Loratadine	79794-75-5	>= 3 - < 10	

4. 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	:	If in eyes, rinse well with water. Get medical attention if irritation develops and persists.
If swallowed	:	If swallowed, DO NOT induce vomiting. Get medical attention. Rinse mouth thoroughly with water.
Most important symptoms and effects, both acute and delayed	:	Suspected of damaging fertility. Contact with dust can cause mechanical irritation or drying of the skin. Dust contact with the eyes can lead to mechanical irritation.
Protection of first-aiders	:	First Aid responders should pay attention to self-protection, and use the recommended personal protective equipment



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Notes	Notes to physician		when the potential for exposure exists (see section 8). Treat symptomatically and supportively.		
5. FIREFIC	GHTING MEASURES				
Suital	Suitable extinguishing media		Water spray Alcohol-resistant foam Carbon dioxide (CO2) Dry chemical		
Unsui media	table extinguishing	:	None known.		
	fic hazards during fire-	:	concentrations, potential dust ex	g dust; fine dust dispersed in air in sufficient and in the presence of an ignition source is a plosion hazard. hbustion products may be a hazard to health.	
Haza ucts	rdous combustion prod-	:	Carbon oxides		
Speci ods	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 so.		
	al protective equipment	:	Evacuate area. In the event of fire, wear self-contained breathing apparatus. Use personal protective equipment.		
6. ACCIDE	ENTAL RELEASE MEAS	SUF	RES		
tive e	nal precautions, protec- quipment and emer- v procedures	:	Follow safe hand	otective equipment. dling advice (see section 7) and personal pro nt recommendations (see section 8).	
Enviro	onmental 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		tainer for dispos Avoid dispersal with compressed Dust deposits sh es, as these may leased into the a	of dust in the air (i.e., clearing dust surfaces	

mine which regulations are applicable.

certain local or national requirements.

Local or national regulations may apply to releases and disposal of this material, as well as those materials and items employed in the cleanup of releases. You will need to deter-

Sections 13 and 15 of this SDS provide information regarding



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7. HANDL	ING AND STORAGE		
Hand	lling		
Tech	nical measures	causing an exp Provide adequa and bonding, o	ate precautions, such as electrical grounding rinert atmospheres.
	/Total ventilation e on safe handling	: Do not breathe Do not swallow Avoid contact w Avoid prolonge Handle in acco practice, based sessment Minimize dust g Keep contained Keep away from Take precautio	<i>.</i>
	lance of contact ene measures	flushing system place. When using do Wash contamir The effective o engineering co appropriate de industrial hygie	ts chemical is likely during typical use, provide eye as and safety showers close to the working o not eat, drink or smoke. hated clothing before re-use. peration of a facility should include review of ntrols, proper personal protective equipment, gowning and decontamination procedures, one monitoring, medical surveillance and the trative controls.
Stora	age		
	litions for safe storage rials to avoid	Store locked up Store in accord	lance with the particular national regulations. ith the following product types:
Pack	aging material	-	erial: None known.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Threshold limit value and permissible exposure limits for each component in the work en-
vironment

Components	CAS-No.	Value type	Control parame-	Basis
		(Form of	ters / Permissible	
		exposure)	concentration	
Cellulose	9004-34-6	TWA	10 mg/m3	ACGIH
Montelukast	151767-02-1	TWA	40 µg/m3 (OEB 3)	Internal
		Wipe limit	400 µg/100 cm ²	Internal
Loratadine	79794-75-5	TWA	40 µg/m3 (OEB 3)	Internal



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			Wipe limit	400 µg/100 cm²	Internal	
Engiı	neering measures	design a protect Contain are req the com tainmer	and operated in acco products, workers, a ment technologies s uired to control at so	uld be implemented I ordance with GMP pr nd the environment. uitable for controlling urce and to prevent r ed areas (e.g., open-	inciples to compounds nigration of	
Perso	onal protective equip	ment				
Respiratory protection Filter type Hand protection		sure as ommen	If adequate local exhaust ventilation is not available or expo- sure assessment demonstrates exposures outside the rec- ommended guidelines, use respiratory protection. Particulates type			
Ma	aterial	: Chemic	al-resistant gloves			
Remarks Eye protection		: Wear sa If the w mists of Wear a potentia	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 aerosols.			
Skin and body protection :		: Work un Additior task be posable Use ap	Work uniform or laboratory coat. Additional body garments should be used based upon the task being performed (e.g., sleevelets, apron, gauntlets, dis- posable suits) to avoid exposed skin surfaces. Use appropriate degowning techniques to remove potentially contaminated clothing.			

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state	:	tablet
Colour	:	No data available
Odour	:	No data available
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 combustible dust concentrations in air during pro- cessing, handling or other means.
Flammability (liquids)	:	Not applicable
		valesies limit (flemme hility limit

Lower explosion limit and upper explosion limit / flammability limit

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	er explosion limit / Upper nability limit	:	No data available	•
	er explosion limit / Lower nability limit	:	No data available	
Flash	n point	:	Not applicable	
Decc	mposition temperature	:	No data available)
pН		:	No data available)
Evap	oration rate	:	Not applicable	
Auto	-ignition temperature	:	No data available)
Visco Vi	osity iscosity, kinematic	:	Not applicable	
	bility(ies) /ater solubility	:	No data available)
Partition coefficient: n- octanol/water		:	Not applicable	
Vapo	our pressure	:	Not applicable	
	ity and / or relative density tive density	:	No data available)
Dens	sity	:	No data available	
Relat	tive vapour density	:	Not applicable	
Explo	osive properties	:	Not explosive	
Oxidi	izing properties	:	The substance of	r mixture is not classified as oxidizing.
Mole	cular weight	:	No data available)
	cle characteristics cle 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 combustible dust concentrations in air during pro- cessing, handling or other means. Can react with strong oxidizing agents.
Conditions to avoid	:	Heat, flames and sparks. Avoid dust formation.





ersion 2	Revision Date: 2021/04/09		OS Number: 74878-00005	Date of last issue: 2020/10/10 Date of first issue: 2019/07/08
	mpatible materials ardous decomposition ucts	:	Oxidizing agen No hazardous	ts decomposition products are known.
I. TOXI	COLOGICAL INFORMA		N	
	Information on likely routes of exposure		Inhalation Skin contact Ingestion Eye contact	
	te toxicity classified based on avail	able	information.	
<u>Com</u>	ponents:			
	ulose:			
Acut	e oral toxicity	:	LD50 (Rat): > 5	,000 mg/kg
Acut	e inhalation toxicity	:	LC50 (Rat): > 5 Exposure time: Test atmospher	4 h
Acut	e dermal toxicity	:	LD50 (Rabbit):	> 2,000 mg/kg
Mon	telukast:			
Acut	e oral toxicity	:	LD50 (Rat): > 5	,000 mg/kg
			LD50 (Mouse):	> 5,000 mg/kg
Acut	e inhalation toxicity	:	Remarks: No da	ata available
Acut	e dermal toxicity	:	Remarks: No da	ata available
Lora	tadine:			
Acut	e oral toxicity	:	LD50 (Rat): > 5	,000 mg/kg
Acut	e inhalation toxicity	:	LC50 (Rat): > 0 Exposure time: Test atmospher Assessment: Th tion toxicity	1 h
	corrosion/irritation	able	information.	
	ponents:			

Montelukast:

Species	:	Rabbit
Result	:	Mild skin irritation

Loratadine:



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Species Result		:	Rabbit No skin irritation	
	u s eye damage/eye assified based on ava			
	onents:	unable		
	elukast:			
Specie		:	Rabbit	
Result		:	Severe irritation	
Lorata				
Specie Result		:	Rabbit No eye irritation	
i tesui	L.	•	No eye imtation	
Respi	ratory or skin sensi	itisatio	n	
-	sensitisation assified based on ava	ailable	information	
Respi	ratory sensitisation assified based on available	1		
<u>Comp</u>	onents:			
Monte	elukast:			
Rema	rks	:	No data available	
Lorata	adine:			
Test T		:	Maximisation Tes	t
	ure routes	:	Dermal Guipoa pig	
Specie	sment	•	Guinea pig Does not cause s	kin sensitisation.
Result		:	negative	
Germ	cell mutagenicity			
Not cla	assified based on ava	ailable	information.	
<u>Comp</u>	onents:			
Cellul	ose:			
Genot	oxicity in vitro	:	Test Type: Bacte Result: negative	rial reverse mutation assay (AMES)
			Test Type: In vitro Result: negative	o mammalian cell gene mutation test
Genot	oxicity in vivo	:	Test Type: Mamn cytogenetic assay Species: Mouse Application Route Result: negative	
			0	



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	elukast:		
Geno	toxicity in vitro	: Test Type: E Result: nega	Bacterial reverse mutation assay (AMES) ative
			n vitro mammalian cell gene mutation test : Chinese hamster fibroblasts ative
			Chromosomal aberration : Chinese hamster ovary cells ative
			Alkaline elution assay : rat hepatocytes ative
Genot	toxicity in vivo	: Test Type: C Species: Mc Cell type: Bc Application I Result: nega	one marrow Route: Oral
	adine:		
Genotoxicity in vitro		: Test Type: E Result: nega	Bacterial reverse mutation assay (AMES) ative
		Test Type: I Result: nega	n vitro mammalian cell gene mutation test ative
		Test Type: 0 Result: nega	Chromosome aberration test in vitro ative
			DNA damage and repair, unscheduled DNA syn- mmalian cells (in vitro) ative
Geno	toxicity in vivo	: Test Type: M Species: Mo Cell type: Bo Application I Result: nega	one marrow Route: Oral
	cell mutagenicity - ssment	: Weight of excell mutager	vidence does not support classification as a gern
	nogenicity assified based on ava	ailable information	
	onents:		
Cellu			
Speci	es	: Rat	



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		ation Route ure time	:	Ingestion 72 weeks negative	
	Monte	lukast:			
		s ation Route ure time	:	Rat Oral 2 Years negative	
		ation Route ure time	:	Mouse Oral 92 weeks negative	
		s ation Route ure time	:	Rat Oral 2 Years 10 mg/kg body w positive	eight
		ation Route ure time	:	Monkey Oral 17 Months 40 mg/kg body w negative	eight
	-	ductive toxicity cted of damaging fertil	ity.		
	Comp	onents:	-		
	Celluic Effects	on fertility	:	Test Type: One-o Species: Rat Application Route Result: negative	generation reproduction toxicity study e: Ingestion
	Effects ment	on foetal develop-	:	Test Type: Fertili Species: Rat Application Route Result: negative	ty/early embryonic development e: Ingestion
	Monte	lukast:			
	Effects	on fertility	:	Result: Animal te	le e: Oral 800 mg/kg body weight sting did not show any effects on fertility.
				Test Type: Fertili	^t y



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			Species: Rat, fen Application Route Fertility: LOAEL: Symptoms: Redu	e: Oral 200 mg/kg body weight
			Test Type: Fertili Species: Rat, fen Application Route Fertility: NOAEL: Symptoms: Redu	nale e: Oral 100 mg/kg body weight
Lorata	adine:			
	s on fertility	:	Species: Rat, ma Application Route Fertility: LOAEL: Result: Effects or	e: Oral 64 mg/kg body weight
Effects ment	s on foetal develop-	:	Species: Rat Application Route Developmental T Result: Embryo-f	oxicity: LOAEL: 48 mg/kg body weight
			Species: Rabbit Application Route Developmental T Result: Embryo-f	oxicity: LOAEL: 48 mg/kg body weight
			Species: Rat Application Route Developmental T	e: Oral oxicity: LOAEL: 12 mg/kg body weight
Repro sessm	ductive toxicity - As- ient	:		of adverse effects on sexual function and animal experiments.
	- single exposure assified based on avai	lahle	information	
	- repeated exposure			
Not cla	assified based on avai	lable	information.	
Repea	ated dose toxicity			
Comp	onents:			
Cellul	ose:			
Specie		:	Rat	
	L ation Route ure time	:	>= 9,000 mg/kg Ingestion 90 Days	
Monte	elukast:			
Specie		:	Monkey, male ar	d female
NOAE	L	:	150 - 300 mg/kg	
Аррііс	ation Route	:	Oral	



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Expos Remai	ure time rks	: 53 Weeks : No significant	adverse effects were reported
	L ation Route ure time	: Rat : 50 mg/kg : Oral : 53 Weeks : No significant	adverse effects were reported
	L ation Route ure time	: Mouse : 50 mg/kg : Oral : 14 Weeks : No significant	adverse effects were reported
Expos	es L L ation Route ure time t Organs	: Rat : 4 mg/kg : 8 mg/kg : Oral : 180 Days : Central nervo : Effects are of	us system limited toxicological significance.
Expos Target Rema	L L ation Route ure time t Organs rks	 Monkey 0.4 mg/kg 4 mg/kg Oral 180 Days Central nervo Effects are of 	us system limited toxicological significance.
Not cla	ation toxicity assified based on avail		
	ience with human exp onents:	posure	
	elukast:	: Remarks: Ma	y irritate skin.
Eye co	ontact	: Symptoms: Se	evere irritation
Ingest	ion		oper respiratory tract infection, pharyngitis, ough, Abdominal pain, Diarrhoea, Fever
Lorata Ingest		: Symptoms: Fa	atigue, Headache, dry mouth, Nausea



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2. ECOL	OGICAL INFORMATION	N		
Ecoto	oxicity			
Com	oonents:			
Cellu	lose:			
Toxic	ity to fish	:	Exposure time: 48	ipes (Japanese medaka)): > 100 mg/l 3 h on data from similar materials
Mont	elukast:			
Toxic	ity to fish	:	Exposure time: 90 Method: OECD T	s promelas (fathead minnow)): > 0.0778 mg/ 5 h est Guideline 203 city at the limit of solubility
	ity to daphnia and other ic invertebrates	:	Exposure time: 48 Method: OECD T	
Toxic plants	ity to algae/aquatic	:	mg/l Exposure time: 72 Method: OECD T	
			mg/l Exposure time: 72 Method: OECD T	
Toxic icity)	ity to fish (Chronic tox-	:	Exposure time: 32 Method: OECD T	
			mg/l Exposure time: 7	on variegatus (sheepshead minnow)): 0.0816 d city at the limit of solubility
	ity to daphnia and other ic invertebrates (Chron- icity)	:	Exposure time: 2	magna (Water flea)): 0.23 mg/l 1 d city at the limit of solubility
Toxic	ity to microorganisms	:	EC50: > 100 mg/l Exposure time: 3 Test Type: Respin Method: OECD T Remarks: No toxi	h ration inhibition



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Lorata	dine:				
	y to fish	:	LC50 (Lepomis m Exposure time: 96 Method: OECD Te		
	y to daphnia and other invertebrates	:	EC50 (Daphnia m Exposure time: 48 Method: OECD Te		
Toxicity plants	Toxicity to algae/aquatic plants		EC50 (Pseudokiro mg/l Exposure time: 72 Method: OECD Te		
			NOEC (Pseudokir mg/l Exposure time: 72 Method: OECD Te		
	or (Acute aquatic tox-	:	1		
icity) Toxicit <u>y</u> icity)	y to fish (Chronic tox-	:	NOEC (Pimephale Exposure time: 32 Method: OECD Te		
	y to daphnia and other invertebrates (Chron- ity)	:	NOEC (Daphnia r Exposure time: 21 Method: OECD Te		
	or (Chronic aquatic	:	1		
toxicity Toxicity	y) ty to microorganisms :		EC50: > 1,000 mg/l Exposure time: 3 h Test Type: Respiration inhibition Method: OECD Test Guideline 209		
Persis	tence and degradabili	itv			
	onents:				
Cellulo					
	radability	:	Result: Readily bi	odegradable.	
Monte	lukast:				
	radability	:	Result: not rapidly Biodegradation: (Exposure time: 28)%	
Stabilit	y in water	:	Hydrolysis: 50 %(21.7 h)	
Lorata	dine:				
	radability	:	Result: not rapidly Biodegradation: 5		



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			Exposure time: Method: OECD	20 d Test Guideline 314
Stabi	lity in water	:	Degradation hal	f life (DT50): 283 d
Bioa	ccumulative potential			
<u>Com</u>	ponents:			
Partit	t elukast: tion coefficient: n- nol/water	:	log Pow: > 4.3	
Partit	tadine: tion coefficient: n- nol/water	:	log Pow: 2.35	
Mobi	lity in soil			
<u>Com</u>	ponents:			
Lora	tadine:			
	bution among environ- al compartments	:	log Koc: 5.25 Method: OECD	Test Guideline 106
	rdous to the ozone lay	er		
Othe	r adverse effects			
No da	ata available			
3. DISPO	OSAL CONSIDERATIO	NS		
Dien	osal methods			
Wast	e from residues aminated packaging	:	Empty contained dling site for rec	cordance with local regulations. rs should be taken to an approved waste han ycling or disposal. specified: Dispose of as unused product.
4. TRAN	SPORT INFORMATION	١		
Inter	national Regulations			
	TDG umber er shipping name	:	UN 3077 ENVIRONMEN ⁻ N.O.S. (Loratadine)	FALLY HAZARDOUS SUBSTANCE, SOLID,
Class Pack Labe	ing group	:	9 III 9	
UN/II	-DGR D No. er shipping name	:	UN 3077 Environmentally	hazardous substance, solid, n.o.s.



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				(Loratadine)	
C	Class		:	9	
F	Packing	g group	:	III	
L	_abels		:	Miscellaneous	
	Packing aircraft)	g instruction (cargo	:	956	
	Packing ger airc	g instruction (passen- raft)	:	956	
Ē	Environ	mentally hazardous	:	yes	
I	MDG-0	Code			
ι	JN nun	nber	:	UN 3077	
F	Proper	shipping name	:	ENVIRONMENTA N.O.S.	ALLY HAZARDOUS SUBSTANCE, SOLID,
				(Loratadine)	
C	Class		:	9	
F	Packing	g group	:	III	
	_abels		:	9	
	EmS C		:	F-A, S-F	
Ν	Marine	pollutant	:	yes	

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

Not applicable for product as supplied.

National Regulations

Refer to section 15 for specific national regulation.

Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

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



rsion	Revision Date: 2021/04/09	SDS Number: 4574878-00005	Date of last issue: 2020/10/10 Date of first issue: 2019/07/08
on Ex		rmation on Chemicals aving Mutagenicity	s having Mutagenicity - Annex 2: Information
Circu on No	lar concerning Info otified Substances I	rmation on Chemicals having Mutagenicity	s having Mutagenicity - Annex 1: Informatio
	oplicable		
	t ances Subject to b oplicable	e Notified Names	
Subst	ances Subject to b	e Indicated Names	
	ance on Prevention	n of Hazards Due to S	pecified Chemical Substances
	ance on Preventior	n of Lead Poisoning	
	ance on Preventior	n of Tetraalkyl Lead Po	oisoning
	ance on Preventior	n of Organic Solvent F	Poisoning
Subst	cement Order of the tances) oplicable	e Industrial Safety and	d Health Law - Attached table 1 (Dangerous
	nous and Deleterio	ous Substances Contr	ol Law
vironi			of Specific Chemical Substances in the En the Management Thereof
-	Pressure Gas Safet	y Act	
-	sive Control Law		
Vesse	el Safety Law		
		substances and articles nd its Attached Table 1	s (Article 2 and 3 of rules on shipping and stor-)
Misce	i on Law Ilaneous dangerous aw and its Attached ⁻		s (Article 194 of The Enforcement Rules of Avi
Marin	e Pollution and Sea	a Disaster Prevention	etc Law
Rulk t	ransportation	: Not classified a	as noxious liquid substance
Duik L	•		
	transportation	: Classified as m	narine pollutant



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Not applicable Specific Narcotic or Psychotropic Raw Material (Export / Import permission) Not applicable							
	Waste Disposal and Public Cleansing Law Industrial waste						
The components of this product are reported in the following inventories:							
AICS		: not determined					
DSL		: not determined					
IECSC	,	: not determined					

16. OTHER INFORMATION

Further information	
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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/					
Date format	yyyy/mm/dd					
Full text of other abbreviations						
ACGIH	USA. ACGIH Threshold Limit Values (TLV)					
ACGIH / TWA	8-hour, time-weighted average					

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 Tem-



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perature; 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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