SAFETY DATA SHEET

BUTANOX M-50

Version 2.8	Revision Date: 2023/04/12	AR	/ EN	Date of last issue: 2021/07/13 Date of first issue: 2015/01/20
SECTIO	ON 1. IDENTIFICATION			
Pro	oduct name	:	BUTANOX M-50	
Ма	nufacturer or supplier's o	deta	ils	
	mpany	:		
Ad	dress	:	Haaksbergweg 8 Amsterdam 110	
Те	lephone	:	+31889840367	
En	nergency telephone numbe	r :	CA-CANUTEC:1 学事故应急咨询时	06 79211, US-CHEMTREC:1-800-424-9300, -613-996-6666, JP: +81 (836) 74 8810, CN: 化 电话:+86 532 8388 9090-: ncy Response Centre: +31 570 679211
-	commended use of the cl commended use	hem :		ons on use

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification		
Organic peroxides	:	Type D
Acute toxicity (Oral)	:	Category 4
Acute toxicity (Inhalation)	:	Category 4
Acute toxicity (Dermal)	:	Category 5
Skin corrosion/irritation	:	Sub-category 1B
Serious eye damage/eye irritation	:	Category 1
Short-term (acute) aquatic hazard	:	Category 2

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	label elements rd pictograms		
Signa	l word	: Danger	
Hazar	rd statements	H302 + H3 H313 May H314 Caus	ing may cause a fire. 32 Harmful if swallowed or if inhaled. be harmful in contact with skin. ses severe skin burns and eye damage. c to aquatic life.
Preca	utionary statements	and other i P234 Keep P235 Keep P240 Grou P261 Avoid P264 Was P270 Do n P271 Use P273 Avoid P280 Wea	away from heat, hot surfaces, sparks, open flames gnition sources. No smoking. o only in original packaging.
		CENTER/ P301 + P3 induce von P303 + P3 immediatel P304 + P3 and keep o POISON C P305 + P3 water for s and easy to CENTER/ P312 Call P363 Was P370 + P3	 12 + P330 IF SWALLOWED: Call a POISON doctor if you feel unwell. Rinse mouth. 30 + P331 IF SWALLOWED: Rinse mouth. Do NOThiting. 61 + P353 IF ON SKIN (or hair): Take off y all contaminated clothing. Rinse skin with water. 40 + P310 IF INHALED: Remove person to fresh a comfortable for breathing. Immediately call a ENTER/ doctor. 51 + P338 + P310 IF IN EYES: Rinse cautiously witeveral minutes. Remove contact lenses, if present to do. Continue rinsing. Immediately call a POISON

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P403 Store in a well-ventilated place. P405 Store locked up. P410 Protect from sunlight. P420 Store separately.

Disposal:

P501 Dispose of contents/ container to an approved waste disposal plant.

Other hazards which do not result in classification

None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture

: Mixture

Components

Chemical name	CAS-No.	Concentration (% w/w)
Dimethyl phthalate	131-11-3	>= 55 -<= 70
Methyl ethyl ketone peroxide	1338-23-4	>= 30 -<= 37
Methyl ethyl ketone	78-93-3	>= 1 -<= 3

SECTION 4. FIRST AID MEASURES

General advice	:	Immediate medical attention is required. Move out of dangerous area. Show this safety data sheet to the doctor in attendance.
If inhaled	:	If breathed in, move person into fresh air. Consult a physician after significant exposure.
In case of skin contact	:	Take off contaminated clothing and shoes immediately. Rinse immediately with plenty of water. Immediate medical treatment is necessary as untreated wounds from corrosion of the skin heal slowly and with difficulty.
In case of eye contact	:	Rinse with plenty of water. Get medical attention immediately. Continue to rinse during transport. Remove contact lenses. Protect unharmed eye. Keep eye wide open while rinsing. Small amounts splashed into eyes can cause irreversible tissue damage and blindness.
If swallowed	:	Clean mouth with water and drink afterwards plenty of water.

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				Take v	give anything by mouth to an unconscious person. ictim immediately to hospital. induce vomiting! May cause chemical burns in mouth oat.
a		portant symptoms ects, both acute and	:	as sho are kno Harmfu May be Causes	mptoms and effects are as expected from the hazards wn in section 2. No specific product related symptoms own. Il if swallowed or if inhaled. harmful in contact with skin. s serious eye damage. s severe burns.
Ν	Notes to	o physician	:	Treat s	ymptomatically.
SECT	TION 5.	FIRE-FIGHTING ME	ASU	IRES	
S	Suitable	e extinguishing media	:		ater spray, alcohol-resistant foam, dry chemical or dioxide.
	Specific irefighti	hazards during	:	Suppor Water firefigh Do not course	allow run-off from fire fighting to enter drains or water s. lous decomposition products formed under fire
	Hazardo product	ous combustion s	:		I produce smoke containing hazardous combustion ts (see section 10).
	Specific nethod	extinguishing s	:	Collect must n Fire rea	ater spray to cool unopened containers. contaminated fire extinguishing water separately. This ot be discharged into drains. sidues and contaminated fire extinguishing water must posed of in accordance with local regulations.

Special protective equipment : In the event of fire, wear self-contained breathing apparatus. for firefighters

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions,	:	Use personal protective equipment.
protective equipment and		Wear respiratory protection.
emergency procedures		Ensure adequate ventilation.
		Remove all sources of ignition.

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		cor Eva On equ	ware of vapours accumulating to form explosive icentrations. Vapours can accumulate in low areas. acuate personnel to safe areas. y qualified personnel equipped with suitable protective ipment may intervene. vent unauthorised persons entering the zone.
Envir	onmental precautions		vent product from entering drains. charge into the environment must be avoided.
	ods and materials for ainment and cleaning up	haz Use as Kee with Cor	ak up with inert absorbent material and dispose of as cardous waste. e only inert inorganic material such as vermiculite or perlite absorbent. ep mixture of absorbent material and spilled product wetted n water. of inement must be avoided. ver return spills in original containers for re-use.

SECTION 7. HANDLING AND STORAGE

Advice on protection against : fire and explosion	:	Use explosion protected equipment. Keep away from sources of ignition - No smoking. No sparking tools should be used. Keep away from reducing agents (e.g. amines), acids, alkalies and heavy metal compounds (e.g. accelerators, driers, metal soaps). Do not cut or weld on or near this container even when empty. Keep away from combustible material.
Advice on safe handling		For personal protection see section 8. Avoid formation of aerosol. Do not breathe vapours or spray mist. Smoking, eating and drinking should be prohibited in the application area. Provide sufficient air exchange and/or exhaust in work rooms. Open drum carefully as content may be under pressure. Dispose of rinse water in accordance with local and national regulations.
Conditions for safe storage	:	No smoking. Electrical installations / working materials must comply with the technological safety standards. Keep only in original container. Store away from other materials.
Further information on storage stability	:	Maximum storage temperature is for quality only.

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Maximum storage : 25 °C temperature:

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
Dimethyl phthalate	131-11-3	CMP	5 mg/m3	AR OEL
		TWA	5 mg/m3	ACGIH
Methyl ethyl ketone peroxide	1338-23-4	CMP-C	0,2 ppm	AR OEL
		С	0,2 ppm	ACGIH
Methyl ethyl ketone	78-93-3	CMP	200 ppm	AR OEL
		CMP - CPT	300 ppm	AR OEL
		TWA	200 ppm	ACGIH
		STEL	300 ppm	ACGIH

Occupational exposure limits of decomposition products

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
Formic acid	64-18-6	CMP	5 ppm	AR OEL
		CMP - CPT	10 ppm	AR OEL
		TWA	5 ppm	ACGIH
		STEL	10 ppm	ACGIH
Organic acid	64-19-7	CMP	10 ppm	AR OEL
		CMP - CPT	15 ppm	AR OEL
		TWA	10 ppm	ACGIH
		STEL	15 ppm	ACGIH
Fatty acid	79-09-4	CMP	10 ppm	AR OEL
		TWA	10 ppm	ACGIH
Methyl ethyl ketone	78-93-3	CMP	200 ppm	AR OEL
		CMP - CPT	300 ppm	AR OEL
		TWA	200 ppm	ACGIH
		STEL	300 ppm	ACGIH

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Biological occupational exposure limits

Components	CAS-No.	Control parameters	Biological specimen	Samplin g time	Permissible concentratio n	Basis
Methyl ethyl ketone	78-93-3	MEK	Urine	End of shift	2 mg/l	AR BEI
		methyl ethyl ketone	Urine	End of shift (As soon as possible after exposure ceases)	2 mg/l	ACGIH BEI
Engineering measures	Eff En	olosion proof v ective exhaust sure that eyew he workstatior	ventilation s ash stations	system		close
Personal protective equ	ipment					
Respiratory protection	wit	he case of vap h an approved er A		sol formatio	n use a respira	ator
Hand protection Material	: Ne	oprene				
Material	: Nit	rile rubber				
Material Break through time Glove thickness	: >=	yl-rubber 480 min mm				
Remarks	glo Th sta ma	eakthrough tim ves often! e data about b ndard values! terial has to be tective glove.	reak through The exact bi	time/streng	gth of material h time/strength	are
Eye protection	We	htly fitting safe ear face-shield blems.		ve suit for a	abnormal proce	essing
Skin and body protection	: Pro	otective suit				
Hygiene measures		ndle in accorda actice.	ance with go	od industria	al hygiene and	safety

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When using do not eat or drink. When using do not smoke. Wash hands before breaks and at the end of workday.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	Clear liquid
Colour	:	colourless
Odour	:	Faint.
Odour Threshold	:	No data available
рН	:	Not applicable
Melting point	:	No data available
Boiling point/boiling range	:	Decomposes below the boiling point.
Flash point	:	Above the SADT value No flash point was obtained, but the product may release flammable vapour.
Evaporation rate	:	No data available
Flammability (liquids)	:	Decomposition products may be flammable.
Upper explosion limit / Upper flammability limit	:	No data available
Lower explosion limit / Lower flammability limit	:	No data available
Vapour pressure	:	1 hPa (84 °C)
Relative vapour density	:	No data available
Relative density	:	1,180 (20 °C)
Bulk density	:	Not applicable
Solubility(ies)		

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	Wat	er solubility	:	partly miscible (2	20 °C)
	Solu	ubility in other solvents	:	(20 °C) Description: Misc	ible with:, Phthalates
	Partitio octanol	n coefficient: n- /water	:	No data available	
	Auto-ig	nition temperature	:	Test method not	applicable
	Decom	position temperature	:	lowest temperatu may occur with a transport. A dang reaction and, unc can be caused by	elerating decomposition temperature) is the re at which self accelerating decomposition substance in the packaging as used in erous self-accelerating decomposition ler certain circumstances, explosion or fire / thermal decomposition at and above the rith incompatible substances can cause elow the SADT.
		celerating position temperature	:	60 °C	
	Viscosi Visc	ty :osity, dynamic	:	24 mPa.s (20 °C)
	Visc	osity, kinematic	:	20,34 mm2/s (20) °C)
	Explosi	ve properties	:	Not explosive	
	Oxidizir	ng properties	:	Not classified as	oxidising.
	Active (Oxygen Content	:	8,8 - 9,0 %	
	Organio	c peroxides	:	30 - 37 %	

SECTION 10. STABILITY AND REACTIVITY

Reactivity	:	Stable under normal conditions.
Chemical stability	:	Stable under recommended storage conditions.
Possibility of hazardous reactions	:	No dangerous reaction known under conditions of normal use.
Conditions to avoid	:	Confinement must be avoided. Heat, flames and sparks.

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Incom	patible materials	hazardo Acids ar Iron Copper Reducir Heavy n Rust Do not r process Use on equipme For que	nix with peroxide accelerators, unless under controlled ing. y stainless steel 316, PP, polyethylene or glass-lined
Hazar produ	dous decomposition	: No deco	emposition if stored and applied as directed.
	dous decomposition	: Carbon Formic a Organic Fatty ac Methyl e	acid acid
Therm	nal decomposition	lowest to may occ transpor reaction can be o SADT. ((Self accelerating decomposition temperature) is the emperature at which self accelerating decomposition cur with a substance in the packaging as used in t. A dangerous self-accelerating decomposition and, under certain circumstances, explosion or fire caused by thermal decomposition at and above the Contact with incompatible substances can cause osition below the SADT.
	ccelerating nposition temperature Г)	: 60 °C	

SECTION 11. TOXICOLOGICAL INFORMATION

Acute toxicity

Harmful if swallowed or if inhaled. May be harmful in contact with skin.

Product:

Acute oral toxicity	:	LD50 Oral (rats): 1.017 mg/kg Method: OECD Test Guideline 401
Acute inhalation toxicity	:	LC50 (Rat): 1,5 mg/l Exposure time: 4 h

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			Test atmosph	ere: dust/mist
Acute	dermal toxicity	:): 4.000 mg/kg D Test Guideline 402
<u>Comp</u>	oonents:			
Dimet	hyl phthalate:			
	oral toxicity	:	LD50 (Rat): >	5.000 mg/kg
Acute	inhalation toxicity	:	Assessment: inhalation tox	The substance or mixture has no acute icity
Acute	dermal toxicity	:	LD50 (Rabbit): > 10.000 mg/kg
Methy	/l ethyl ketone perox	ide:		
-	oral toxicity			ale): 1.017 mg/kg D Test Guideline 401
Acute	inhalation toxicity	:	Exposure time Test atmosph	ale and female): 1,5 mg/l e: 4 h ere: dust/mist D Test Guideline 403
Acute	dermal toxicity	:		, male and female): 4.000 mg/kg D Test Guideline 402
Methy	/l ethyl ketone:			
-	oral toxicity	:	LD50 (Rat): 2	.737 mg/kg
Acute	dermal toxicity	:	LD50 (Rabbit): 6.480 mg/kg
	corrosion/irritation es severe burns.			
Produ Specie Asses Metho Result	es sment od	:	Rabbit Category 1B Tested accord Sub-category	ding to Annex V of Directive 67/548/EE0 1B
<u>Comp</u>	oonents:			
Dimet	hyl phthalate:			
Result	ł	:	slight irritatior	

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Methy	l ethyl ketone perox	ide:	
Result		: Causes burns	5.
Methy	l ethyl ketone:		
Result Remar		: Repeated exp : Moderately in	posure may cause skin dryness or cracking. ritating.
	is eye damage/eye i s serious eye damag		
<u>Produ</u>			
Specie Result		: Rabbit : Risk of seriou	is damage to eyes.
Assess Metho	sment	: Risk of seriou	lis damage to eyes. ding to Annex V of Directive 67/548/EEC.
Comp	onents:		
Dimet	hyl phthalate:		
Result		: Slightly irritati	ng to eyes.
Methy	l ethyl ketone perox	ide:	
Result		: Risk of seriou	is damage to eyes.
Methy	l ethyl ketone:		
Result		: Irritating to ey	/es.
Respi	ratory or skin sensit	isation	
	ensitisation assified based on ava	ilable information.	
-	ratory sensitisation assified based on ava	ilable information.	
<u>Comp</u>	onents:		
Methy Assess	I ethyl ketone perox sment		se skin sensitisation.
	cell mutagenicity assified based on ava	ilable information.	

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<u>Comp</u>	oonents:		
Methy	yl ethyl ketone pero	xide:	
Genot	toxicity in vitro	: Test Type: Result: neg	
Geno	toxicity in vivo		Not classified due to data which are conclusive sufficient for classification.
Carci	nogenicity		
Not cl	assified based on ava	ailable information.	
Comp	oonents:		
Methy	yl ethyl ketone pero	xide:	
Rema	ırks	: No data av	ailable
<u>Comp</u>	assified based on ava conents:		
-	yl ethyl ketone pero		
Effect	s on fertility	Application Dose: 0 25 General To General To Fertility: NO	at, male and female Route: Oral 5, 50, 75 milligram per kilogram oxicity - Parent: NOAEL: 50 mg/kg bw/day oxicity F1: NOAEL F1: 50 mg/kg bw/day OAEL Parent: 75 mg/kg bw/day ECD Test Guideline 421
	- single exposure		
	assified based on ava	anable mormation.	
	onents:		
Methy Rema	yl ethyl ketone pero : ırks	: Not classifi	ed due to data which are conclusive although for classification.
Methy	yl ethyl ketone:		
-	sure routes	: Inhalation	nce or mixture is classified as specific target org

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STOT - repeated exposure

Not classified based on available information.

:

Components:

Methyl ethyl ketone peroxide:

Assessment

The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

Aspiration toxicity

Not classified based on available information.

Components:

Dimethyl phthalate: No aspiration toxicity classification

Methyl ethyl ketone peroxide:

No aspiration toxicity classification

Methyl ethyl ketone:

No aspiration toxicity classification

Further information

Product:

Remarks

: No further data available.

Components:

Dimethyl phthalate:

Remarks

: No further data available.

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Product:

Toxicity to fish	:	LC50 (Poecilia reticulata (guppy)): 44,2 mg/l Exposure time: 96 h Test Type: semi-static test
Toxicity to daphnia and other aquatic invertebrates	:	(Daphnia magna (Water flea)): 39 mg/l Exposure time: 48 h Test Type: Immobilization

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				GLP: yes	
	Toxicity plants	to algae/aquatic	:	ErC50 (Pseudokin Exposure time: 72 Test Type: Growt	
	Toxicity	to microorganisms	:	EC10 (activated s Exposure time: 0, Test Type: Respir Method: Domestic	5 h
	Compo	nents:			
	Dimeth	yl phthalate:			
	Toxicity	to fish	:	LC50 (Lepomis m Exposure time: 96	acrochirus (Bluegill sunfish)): 420 mg/l 5 h
	Toxicity plants	to algae/aquatic	:	EC10 (Desmodes mg/l Exposure time: 72 Test Type: Growt Method: OECD Te	h inhibition
				ErC50 (Desmode mg/l Exposure time: 72 Test Type: Growt Method: OECD Te	h inhibition
	Toxicity toxicity)	to fish (Chronic	:	NOEC (Oncorhyn Exposure time: 10 Test Type: flow-th Method: Other gu	rough test
	aquatic	to daphnia and other invertebrates c toxicity)	:	NOEC (Daphnia r End point: reprod Exposure time: 2 ⁻ Method: Other gu	ld
		icology Assessment quatic toxicity	:	Harmful to aquation	c life.
	Methyl Toxicity	ethyl ketone peroxide to fish	e: :	LC50 (Poecilia re Exposure time: 96 Test Type: semi-s Method: OECD To	static test

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				GLP: yes	
				Exposure Test Typ	oecilia reticulata (guppy)): 18 mg/l time: 96 h e: semi-static test DECD Test Guideline 203
		to daphnia and other invertebrates	:	Exposure Test Typ	aphnia magna (Water flea)): 39 mg/l time: 48 h e: Immobilization DECD Test Guideline 202
				Exposure Test Typ	aphnia magna (Water flea)): 26,7 mg/l time: 24 h e: Immobilization DECD Test Guideline 202
	oxicity lants	to algae/aquatic	:	Exposure Test Typ	seudokirchneriella subcapitata (algae)): 5,6 mg/l time: 72 h e: Growth inhibition DECD Test Guideline 201
				Exposure Test Typ	seudokirchneriella subcapitata (algae)): 2,1 mg/l time: 72 h e: Growth inhibition DECD Test Guideline 201
Т	oxicity	to microorganisms	:	Exposure Test Typ	tivated sludge): 48 mg/l time: 0,5 h e: Respiration inhibition Domestic OECD Guideline 209
				Exposure Test Typ	tivated sludge): 12 mg/l time: 0,5 h e: Respiration inhibition Domestic OECD Guideline 209
	-	ethyl ketone:			
Т	oxicity	to fish	:		pomis macrochirus (Bluegill sunfish)): 3.220 mg/l time: 96 h

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Persi	stence and degrada	bility	
<u>Com</u>	oonents:		
Dime	thyl phthalate:		
Biode	gradability		idily biodegradable. tion: 93 - 98 %
Meth	yl ethyl ketone pero:	xide:	
Biode	gradability	: Result: Rea Method: Clo	dily biodegradable. osed Bottle test
Meth	yl ethyl ketone:		
Biode	gradability	: Result: Rea	dily biodegradable.
Bioad	ccumulative potentia	al	
<u>Com</u>	oonents:		
Dime	thyl phthalate:		
Bioac	cumulation	: Species: Fi Bioconcent Exposure ti	ration factor (BCF): 5,4
	ion coefficient: n- ol/water	: log Pow: 2,	12
Meth	yl ethyl ketone pero:	xide:	
Bioac	cumulation		ration factor (BCF): 10,3 lot expected considering the low log Pow val
	ion coefficient: n- ol/water		2,04 (25 °C) ECD Test Guideline 117
Meth	yl ethyl ketone:		
	ion coefficient: n- ol/water	: log Pow: 0,	29
Mobi	lity in soil		
No da	ata available		
Othe	r adverse effects		
Prod	uct:		
	onal ecological nation		nental hazard cannot be excluded in the eve nal handling or disposal.

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Components:		
Dimethyl phthalate: Additional ecological information		nental hazard cannot be excluded in the event of nal handling or disposal. Iquatic life.
CTION 13. DISPOSAL CO	NSIDERATIONS	
Disposal methods		
Waste from residues	courses or the Do not contain the contract contains of the contract of the con	should not be allowed to enter drains, water he soil. aminate ponds, waterways or ditches with used container. contents/container in accordance with local
Contaminated packaging	Dispose of a Do not burn, Due to the h recommend	ining contents. as unused product. , or use a cutting torch on, the empty drum. igh risk of contamination recycling/recovery is not ed. arnings even after the container is emptied.
CTION 14. TRANSPORT II	FORMATION	
International Regulation	S	
UNRTDG		

UN number Proper shipping name Class Packing group	 : UN 3105 : ORGANIC PEROXIDE TYPE D, LIQUID (Methyl ethyl ketone peroxide) : 5.2 : Not assigned by regulation
Labels	: 5.2
IATA-DGR UN/ID No. Proper shipping name	 UN 3105 Organic peroxide type D, liquid (Methyl ethyl ketone peroxide)
Class	: 5.2
Packing group	: Not assigned by regulation
Labels	: Organic Peroxides, Keep Away From Heat
Packing instruction (cargo aircraft)	: 570

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	ing instruction	: 570	
, i	o ,		
UN n	G-Code lumber er shipping name		C PEROXIDE TYPE D, LIQUID hyl ketone peroxide)
Labe EmS	ing group	: 5.2	ned by regulation

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

Not applicable for product as supplied.

Special precautions for user

Registry.

The transport classification(s) provided herein are for informational purposes only. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

SECTION 15. REGULATORY INFORMATION

Safety, health and environmental regulations/leg mixture	gislation specific for the substance or
Argentina. Carcinogenic Substances and Agents	: Not applicable

Control of precursors and essential chemicals for the : Not applicable preparation of drugs.

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

TCSI	:	On the inventory, or in compliance with the inventory
TSCA	:	All substances listed as active on the TSCA inventory
AIIC	:	All components are listed on the inventory, regulatory obligations/restrictions apply
DSL	:	All components of this product are on the Canadian DSL
ENCS	:	On the inventory, or in compliance with the inventory
ISHL	:	On the inventory, or in compliance with the inventory

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KECI		: On the invent	tory, or in compliance with the inventory
PICCS	S	: On the invent	tory, or in compliance with the inventory
IECS	C	: On the invent	tory, or in compliance with the inventory
NZIoC	>	: On the invent	tory, or in compliance with the inventory
TECI		: On the invent	tory, or in compliance with the inventory
SECTION		ΑΤΙΟΝ	

SECTION 16. OTHER INFORMATION

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Date format	: yyyy/mm/dd

Full text of other abbreviations

ACGIH :	USA. ACGIH Threshold Limit Values (TLV)
ACGIH BEI :	ACGIH - Biological Exposure Indices (BEI)
AR BEI :	Argentina. Biological Exposure Indices
AR OEL :	Argentina. Occupational Exposure Limits

ACGIH / TWA :	8-hour, time-weighted average
ACGIH / STEL :	Short-term exposure limit
ACGIH / C :	Ceiling limit
AR OEL / CMP :	TLV (Threshold Limit Value)
AR OEL / CMP - CPT :	STEL (Short Term Limit Value)
AR OEL / CMP-C :	Ceiling 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 Concentration; NO(A)EL - No Observed (Adverse) Effect Level;

SAFETY DATA SHEET

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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 given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

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