

Version	Revision Date:	SDS Number:	Date of last issue: 2024/02/20
5.0	2024/09/28	10848173-00005	Date of first issue: 2022/09/09

#### **1. PRODUCT AND COMPANY IDENTIFICATION**

Chemical product name	:	Levamisole Hydrochloride (8%) Liquid Formulation
Other means of identification	:	COOPERS NILVERM LV ORAL WORMER (36152)
Supplier's company name, ac Company name of supplier		•
Address	:	Kumagaya, Saitama Prefecture , Xicheng 810 MSD Co., Ltd. Menuma factory
Telephone	:	048-588-8411
E-mail address	:	EHSDATASTEWARD@msd.com
Emergency telephone number	:	+1-908-423-6000

#### Recommended use of the chemical and restrictions on use

Recommended use	:	Veterinary product
Restrictions on use	:	Not applicable

### 2. HAZARDS IDENTIFICATION

GHS classification of chemica Reproductive toxicity	product Category 2	
GHS label elements Hazard pictograms		
Signal word Hazard statements	Warning H361d Suspected of damaging the unborn child.	
Precautionary statements	<b>Prevention:</b> P201 Obtain special instructions before use. P202 Do not handle until all safety precautions have been read and understood. P280 Wear protective gloves/ protective clothing/ eye protec- tion/ face protection.	b



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#### **Response:**

P308 + P313 IF exposed or concerned: Get medical advice/ attention.

#### Storage:

P405 Store locked up.

#### Disposal:

: Mixture

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

## Other hazards which do not result in classification None known.

#### **3. COMPOSITION/INFORMATION ON INGREDIENTS**

Components			
Chemical name	CAS-No.	Concentration (% w/w)	ENCS No.
levamisole hydrochloride	16595-80-5	7.77	-
Citric acid	77-92-9	>= 1 - < 10	2-1318
Tetrasodium ethylenediaminetet- raacetate	64-02-8	>= 0.1 - < 1	2-1265

#### 4. FIRST AID MEASURES

Substance / Mixture

General advice	<ul> <li>In the case of accident or if you feel unwell, seek medical advice immediately.</li> <li>When symptoms persist or in all cases of doubt seek medical advice.</li> </ul>
If inhaled	If inhaled, remove to fresh air. Get medical attention.
In case of skin contact	<ul> <li>In case of contact, immediately flush skin with soap and plenty of water.</li> <li>Remove contaminated clothing and shoes.</li> <li>Get medical attention.</li> <li>Wash clothing before reuse.</li> <li>Thoroughly clean shoes before reuse.</li> </ul>
In case of eye contact	Flush eyes with water as a precaution. 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 the unborn child.



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	Protect	tion 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).		
	Notes t	to physician	:		cally and supportively.	
5. FI	REFIG	HTING MEASURES				
	Suitabl	e extinguishing media	:	Water spray Alcohol-resistant Carbon dioxide (C Dry chemical		
	Unsuita media	able extinguishing	:	None known.		
	Specifi fighting	c hazards during fire- J	:	Exposure to com	pustion products may be a hazard to health.	
	Hazaro ucts	lous combustion prod-	:	Carbon oxides		
	Specifi ods	c extinguishing meth-	:	cumstances and t Use water spray t	measures that are appropriate to local cir- he surrounding environment. o cool unopened containers. ged containers from fire area if it is safe to do	
	Specia for firef	l protective equipment ighters	:		e, wear self-contained breathing apparatus. tective equipment.	

#### 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protec- tive equipment and emer- gency procedures	:	Use personal protective equipment. Follow safe handling advice (see section 7) and personal pro- tective equipment recommendations (see section 8).
Environmental precautions	:	Avoid release to the environment. Prevent further leakage or spillage if safe to do so. Prevent spreading over a wide area (e.g. by containment or oil barriers). 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	:	Soak up with inert absorbent material. For large spills, provide dyking or other appropriate contain- ment to keep material from spreading. If dyked material can be pumped, store recovered material in appropriate container.



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		bent. Local or natior posal of this m employed in th mine which re Sections 13 an	aining materials from spill with suitable absor- nal regulations may apply to releases and dis- naterial, as well as those materials and items ne cleanup of releases. You will need to deter- gulations are applicable. nd 15 of this SDS provide information regarding r national requirements.
7. HANDL	ING AND STORAGE		
Hand	llina		
	nical measures		ng measures under EXPOSURE PERSONAL PROTECTION section.
	I/Total ventilation	: Use only with	adequate ventilation.
	e on safe handling	Do not swallov Avoid contact Avoid prolong Handle in acco practice, base sessment Take care to p environment.	with eyes. ed or repeated contact with skin. ordance with good industrial hygiene and safety d on the results of the workplace exposure as- prevent spills, waste and minimize release to the
	dance of contact ene measures	flushing system place. When using de Wash contame The effective of engineering co appropriate de industrial hygi	nts chemical is likely during typical use, provide eye ms and safety showers close to the working o not eat, drink or smoke. Inated clothing before re-use. operation of a facility should include review of ontrols, proper personal protective equipment, egowning and decontamination procedures, ene monitoring, medical surveillance and the strative controls.
Stora	age		
Cond	litions for safe storage	: Keep in prope Store locked u	rly labelled containers. 

	Store in accordance with the particular national regulations.
:	Do not store with the following product types:

	Strong oxidizing agents	

## Packaging material : Unsuitable material: None known.

#### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Materials to avoid

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



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Components	CAS-No.	Value type (Form of exposure)	Control parame- ters / Concentra- tion standard / Permissible con- centration	Basis	
levamisole hydrochloride	16595-80-5	TWA	20 µg/m3 (OEB 3)	Internal	
	Further informa				
		Wipe limit	200 µg/100 cm <sup>2</sup>	Internal	
Engineering measures :	Use appropriate engineering controls and manufacturing technologies to control airborne concentrations (e.g., drip- less quick connections). All engineering controls should be implemented by facility design and operated in accordance with GMP principles to protect products, workers, and the environment. Containment technologies suitable for controlling compounds are required to control at source and to prevent migration of the compound to uncontrolled areas (e.g., open-face con- tainment devices). Minimize open handling.				
Personal protective equipmen	t				
Respiratory protection:Filter type:Hand protection	<ul> <li>If adequate local exhaust ventilation is not available or exposure assessment demonstrates exposures outside the recommended guidelines, use respiratory protection.</li> <li>Particulates type</li> </ul>				
Material :	Chemical-resi	stant gloves			
Remarks       :         Eye protection       :         Skin and body protection       :	If the work en mists or aeros Wear a facesl potential for d aerosols. Work uniform Additional boo task being pel posable suits)	lasses with side vironment or act sols, wear the ap hield or other full irect contact to the or laboratory co dy garments sho formed (e.g., sle to avoid expose the degowning te	shields or goggles. ivity involves dusty co propriate goggles. face protection if the ne face with dusts, m at. uld be used based up eevelets, apron, gaun ed skin surfaces. chniques to remove p	ere is a ists, or pon the tlets, dis-	

### 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state	:	liquid
Colour	:	clear

yellow



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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)	:	Not applicable
Flammability (liquids)	:	No data available
Lower explosion limit and uppe Upper explosion limit / Up- per flammability limit		xplosion limit / flammability limit No data available
Lower explosion limit / Lower flammability limit	:	No data available
Flash point	:	No data available
Decomposition temperature	:	No data available
рН	:	No data available
Evaporation rate	:	No data available
Auto-ignition temperature	:	No data available
Viscosity Viscosity, kinematic	:	No data available
Solubility(ies) Water solubility	:	No data available
Partition coefficient: n- octanol/water	:	Not applicable
Vapour pressure	:	No data available
Density and / or relative densit Relative density	у :	No data available
Density	:	No data available
Relative vapour density	:	No data available
Explosive properties	:	Not explosive



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Ovidi	zing properties	: The substanc	e or mixture is not classified as oxidizing.
Oxidizing properties Molecular weight		: No data availa	Ū.
Particle characteristics Particle size		: Not applicable	9

#### **10. STABILITY AND REACTIVITY**

Reactivity	:	Not classified as a reactivity hazard.
Chemical stability	:	Stable under normal conditions.
Possibility of hazardous reac-	:	Can react with strong oxidizing agents.
tions		
Conditions to avoid	:	None known.
Incompatible materials	:	Oxidizing agents
Hazardous decomposition products	:	No hazardous decomposition products are known.

#### 11. TOXICOLOGICAL INFORMATION

Information on likely routes of	:	
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

#### Components:

	levamisole hydrochloride:		
I	Acute oral toxicity	:	LD50 (Rat): 180 mg/kg
			LD50 (Mouse): 223 mg/kg
			LD50 (Rabbit): 458 mg/kg
	Acute inhalation toxicity	:	Remarks: No data available
	Acute dermal toxicity	:	Remarks: No data available
1			

#### Citric acid:



rsion )	Revision Date: 2024/09/28	SDS Numbe 10848173-0	
Acute	oral toxicity	: LD50 (N	ouse): 5,400 mg/kg
Acute	dermal toxicity	Method:	at): > 2,000 mg/kg OECD Test Guideline 402 nent: The substance or mixture has no acute derma
Tetra	sodium ethylenedia	ninetetraaceta	e:
	oral toxicity	: LD50 (R	at): 1,780 mg/kg OECD Test Guideline 401
Acute	inhalation toxicity	Test atm	at): > 1 mg/l e time: 6 h losphere: dust/mist s: Based on data from similar materials
-	corrosion/irritation assified based on ava	ailable information	on.
<u>Com</u>	oonents:		
levan	nisole hydrochloride	:	
Rema	arks	: No data	available
Citric	acid:		
Speci	es	: Rabbit	
Metho			est Guideline 404
Resul	t	: No skin	rritation
Tetra	sodium ethylenedia	ninetetraaceta	e:
Speci		: Rabbit	
Metho Resul		: OECD T : No skin	est Guideline 404
Serio Not cl	us eye damage/eye assified based on ava conents:	irritation	
-		_	
Rema	nisole hydrochloride arks		available
Citria	acid:		
Speci		: Rabbit	
Resul			to eyes, reversing within 21 days



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#### Tetrasodium ethylenediaminetetraacetate:

Result Remarks	:	Irreversible effects on the eye
Remarks	:	Based on national or regional regulation.

#### Respiratory or skin sensitisation

#### Skin sensitisation

Not classified based on available information.

#### **Respiratory sensitisation**

Not classified based on available information.

#### **Components:**

#### levamisole hydrochloride:

Remarks

: No data available

#### Tetrasodium ethylenediaminetetraacetate:

Test Type	:	Maximisation Test
Exposure routes	:	Skin contact
Species	:	Guinea pig
Method	:	OECD Test Guideline 406
Result	:	negative
Test Type Exposure routes Species Method Result Remarks	:	Based on data from similar materials

#### Germ cell mutagenicity

Not classified based on available information.

#### **Components:**

#### levamisole hydrochloride:

Genotoxicity in vitro	:	Test Type: Bacterial reverse mutation assay (AMES) Result: negative Test Type: Chromosome aberration test in vitro Result: negative
Citric acid:		
Genotoxicity in vitro	:	Test Type: Bacterial reverse mutation assay (AMES) Result: negative
		Test Type: in vitro micronucleus test Result: positive
		Test Type: Bacterial reverse mutation assay (AMES) Result: negative
Genotoxicity in vivo	:	Test Type: Mutagenicity (in vivo mammalian bone-marrow cytogenetic test, chromosomal analysis)



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Species: Rat
Application Route: Ingestion
Result: negative

#### Tetrasodium ethylenediaminetetraacetate:

Genotoxicity in vitro	: Test Type: Chromosome aberration test in vitro Result: negative Remarks: Based on data from similar materials
Genotoxicity in vivo	<ul> <li>Test Type: Mammalian erythrocyte micronucleus test (in vivo cytogenetic assay)</li> <li>Species: Mouse</li> <li>Application Route: Ingestion</li> <li>Method: OECD Test Guideline 474</li> <li>Result: negative</li> <li>Remarks: Based on data from similar materials</li> </ul>

#### Carcinogenicity

Not classified based on available information.

#### Components:

#### levamisole hydrochloride:

Species Application Route Exposure time NOAEL Remarks	<ul> <li>Mouse</li> <li>Oral</li> <li>2 Years</li> <li>80 mg/kg body weight</li> <li>No significant adverse effects were reported</li> </ul>
Species Application Route Exposure time NOAEL Remarks	<ul> <li>Rat</li> <li>Oral</li> <li>2 Years</li> <li>40 mg/kg body weight</li> <li>No significant adverse effects were reported</li> </ul>

#### Tetrasodium ethylenediaminetetraacetate:

Species Application Route Exposure time Result Remarks	:	Rat Ingestion 103 weeks negative Based on data from similar materials
Species Application Route Exposure time Result Remarks	:	Mouse Ingestion 103 weeks negative Based on data from similar materials



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#### Reproductive toxicity

Suspected of damaging the unborn child.

#### **Components:**

levamisole hydrochloride:		
Effects on fertility	:	Test Type: Three-generation reproduction toxicity study Species: Rat Application Route: Oral Result: No significant adverse effects were reported
Effects on foetal develop- ment	:	Test Type: Embryo-foetal development Species: Rat Application Route: Oral Developmental Toxicity: NOAEL: 20 mg/kg body weight Result: Fetotoxicity
		Test Type: Embryo-foetal development Species: Rabbit Application Route: Oral Developmental Toxicity: LOAEL: 40 mg/kg body weight Result: Fetotoxicity
Reproductive toxicity - As- sessment	:	Some evidence of adverse effects on development, based on animal experiments.
Citric acid:		
Effects on foetal develop- ment	:	Test Type: One-generation reproduction toxicity study Species: Rat Application Route: Ingestion Result: negative

#### Tetrasodium ethylenediaminetetraacetate:

Effects on fertility	:	Test Type: Four-generation reproduction toxicity study Species: Rat Application Route: Ingestion Result: negative Remarks: Based on data from similar materials
Effects on foetal develop- ment	:	Test Type: Embryo-foetal development Species: Rat Application Route: Ingestion Result: negative

#### STOT - single exposure

Not classified based on available information.



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Citric	ponents: c acid: ssment	: May cause resp	iratory irritation		
STO Not c	<b>Γ - repeated exposur</b> lassified based on ava ponents:	e			
levar Targe	<b>nisole hydrochloride</b> et Organs ssment	: Blood, Testis	age to organs through prolonged or repeated		
Expo Targe	s <b>odium ethylenedia</b> sure routes et Organs ssment	: inhalation (dust/ : Respiratory Tra : Shown to produ			
Com	eated dose toxicity ponents: nisole hydrochloride	:			
Spec NOAI Appli Expo	ies	: Rat : 2.5 mg/kg : Oral : 18 Months : Testis			
Expo		: Dog : 20 mg/kg : Oral : 18 Months : Blood	20 mg/kg Oral 18 Months		
		: Dog : 40 mg/kg : Oral : 3 Months			
Spec NOAI LOAE Appli	EL	: Rat : 4,000 mg/kg : 8,000 mg/kg : Ingestion : 10 Days			



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#### Tetrasodium ethylenediaminetetraacetate:

Species NOAEL Application Route Exposure time Remarks	<ul> <li>Mouse</li> <li>&gt;= 938 mg/kg</li> <li>Ingestion</li> <li>103 Weeks</li> <li>Based on data from similar materials</li> </ul>
Species	: Rat
LOAEL	: 0.03 mg/l
Application Route	: inhalation (dust/mist/fume)
Exposure time	: 4 Weeks
Remarks	: Based on data from similar materials

#### Aspiration toxicity

Not classified based on available information.

#### Experience with human exposure

#### Components:

#### levamisole hydrochloride:

Ingestion

: Symptoms: Nausea, Vomiting, Headache, Dizziness, hypotension

#### **12. ECOLOGICAL INFORMATION**

Ecotoxicity

Components:

#### levamisole hydrochloride:

Toxicity to fish	:	LC50 (Oryzias latipes (Japanese medaka)): 37.3 mg/l Exposure time: 96 h Method: OECD Test Guideline 203
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): 64 mg/l Exposure time: 48 h Method: OECD Test Guideline 202
Citric acid:		
Toxicity to fish	:	LC50 (Pimephales promelas (fathead minnow)): > 100 mg/l Exposure time: 96 h
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): 1,535 mg/l Exposure time: 24 h

Tetrasodium ethylenediaminetetraacetate:

### SAFETY DATA SHEET



# Levamisole Hydrochloride (8%) Liquid Formulation

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Toxic	ity to fish	:	LC50 (Lepomis n Exposure time: 9	nacrochirus (Bluegill sunfish)): 121 mg/l 6 h
	ity to daphnia and other ic invertebrates	:	Exposure time: 4 Method: DIN 384	
Toxic plants	ity to algae/aquatic	:	NOEC (Desmodesmus subspicatus (green algae)): 100 m Exposure time: 72 h Method: Directive 67/548/EEC, Annex V, C.3.	
Toxic icity)	ity to fish (Chronic tox-	:	Exposure time: 3 Method: OECD T	rio (zebra fish)): > 25.7 mg/l 5 d Test Guideline 210 on data from similar materials
	ity to daphnia and other ic invertebrates (Chron- icity)	:	Exposure time: 2	magna (Water flea)): 25 mg/l 1 d on data from similar materials
Toxic	ity to microorganisms	:	EC10: > 1,000 m Exposure time: 3 Method: ISO 819	Õ min
II Persi	stence and degradabili	ity		
<u>Com</u>	oonents:			
Citric	acid:			
Biode	gradability	:	Result: Readily b Biodegradation: Exposure time: 2 Method: OECD T	97 %
Tetra	sodium ethylenediamii	nete	etraacetate:	
Biode	gradability	:		0 - 10 %
Bioad	cumulative potential			
Com	oonents:			

#### Components:

Citric	acid:	
-		

Partition coefficient: n- octanol/water	:	log Pow: -1.72
octanol/water		



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Tetra	asodium ethylenediam	inet	etraacetate:		
Bioa	ccumulation	:	Species: Lepomis macrochirus (Bluegill sunfish) Bioconcentration factor (BCF): 1.8		
	<b>ility in soil</b> lata available				
	ardous to the ozone lay applicable	/er			
	er adverse effects lata available				
13. DISP	OSAL CONSIDERATIO	NS			
Disp	osal methods				
Was	te from residues	:		cordance with local regulations.	
Cont	aminated packaging	:	<ul> <li>Do not dispose of waste into sewer.</li> <li>Empty containers should be taken to an approved waste handling site for recycling or disposal.</li> <li>If not otherwise specified: Dispose of as unused product.</li> </ul>		
14. TRAN	SPORT INFORMATION	N			
Inter	national Regulations				
UNR	TDG				
	number	:	Not applicable		
	er shipping name	:	Not applicable		
Clas	s sidiary risk	÷	Not applicable		
	king group	÷	Not applicable Not applicable		
Labe		÷	Not applicable		
Envi	ronmentally hazardous	:	no		
IATA	A-DGR				
	D No.	:	Not applicable		
	er shipping name	:	Not applicable		
Clas		:	Not applicable		
	sidiary risk king group	:	Not applicable Not applicable		
Labe		÷	Not applicable		
Deal	ing instruction (sorge		Not oppliaable		

Not applicable

Not applicable

Not applicable

Not applicable

Not applicable

:

:

:

:

1

Packing instruction (cargo

Proper shipping name

Packing instruction (passen-

aircraft)

Class

ger aircraft) IMDG-Code UN number



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Subsidiary risk	:	Not applicable
Packing group	:	Not applicable
Labels	:	Not applicable
EmS Code	:	Not applicable
Marine pollutant	:	Not applicable

**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

Not applicable

#### **15. REGULATORY INFORMATION**

#### **Related Regulations**

#### **Fire Service Law**

Not applicable to dangerous materials / designated flammables.

#### **Chemical Substance Control Law**

Priority Assessment Chemical Substance

Chemical name	Number
Sodium salt of 2,2',2",2"'-(ethane-1,2-diyldinitrilo)tetraacetic acid	268

#### 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

Article 57-2 (Enforcement Order Table 9)

Chemical name	Concentration (%)	Remarks
levamisole hydrochloride	>=1 - <10	From April 1st, 2025

### Substances Subject to be Indicated Names

Article 57 (Enforcement Order Article 18)



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Chemical name	Remarks
levamisole hydrochloride	From April 1st, 2025

Skin and Eye Damage Substances for PPE Requirements (ISHL MO Art. 594-2) Not applicable

Carcinogenic Substances (Article 577-2 of the Occupational Health and Safety Regulations)

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**

**Deleterious substance** Cabinet Order Number Chemical name (S)-2,3,5,6-Tetrahydro-6-phenylimidazo[2,1-b]thiazole, its salts and 71.3 preparations containing some of them

### Act on Confirmation, etc. of Release Amounts of Specific Chemical Substances in the Environment 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 Disaster Prevention etc Law

Bulk transportation	:	Noxious liquid substance(Category Z)
Pack transportation	:	Not classified as marine pollutant

ck transportation :	1	Not classified as marine pollutant
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#### 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 components of this product are reported in the following inventories:

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

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

In this SDS, if the concentration of substances subject to notification under the Industrial Safety and Health Law is indicated as a range, it includes cases where it is a trade secret.

#### Further information

Sources of key data used to	:	Internal technical data, data from raw material SDSs, OECD
compile the Safety Data		eChem Portal search results and European Chemicals Agen-
Sheet		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.

Date format : yyyy/mm/dd

#### Full text of other abbreviations

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;



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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.

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