

Levamisole Hydrochloride (8%) Liquid Formulation

Version	Revision Date:	SDS Number:	Date of last issue: 06.04.2024
3.1	28.09.2024	10849440-00006	Date of first issue: 09.09.2022

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Trade name	:	Levamisole Hydrochloride (8%) Liquid Formulation
Other means of identification	:	COOPERS NILVERM LV ORAL WORMER (36152)

1.2 Relevant identified uses of the substance or mixture and uses advised against

Use of the Sub- stance/Mixture	:	Veterinary product
Recommended restrictions on use	:	Not applicable

1.3 Details of the supplier of the safety data sheet

Company	:	MSD Walton Manor, Walton MK7 7AJ Milton Keynes - United Kingdom
Telephone	:	+1-908-740-4000
E-mail address of person responsible for the SDS	:	EHSDATASTEWARD@msd.com

1.4 Emergency telephone number

+1-908-423-6000

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008) as amended by GB-CLP Regulation, UK SI 2019/720, and UK SI 2020/1567)

Reproductive toxicity, Category 2

H361d: Suspected of damaging the unborn child.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008) as amended by GB-CLP Regulation, UK SI 2019/720, and UK SI 2020/1567)

Hazard pictograms





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Signa	al word	:	Warning		
Haza	ard statements	•	H361d	Susp	ected of damaging the unborn child.
Prec	autionary statements	:	Prevention P201 P280	Obtai Wear	n special instructions before use. protective gloves/ protective clothing/ eye ction/ face protection.
			Response: P308 + P31		exposed or concerned: Get medical advice/ ion.
			Storage: P405	Store	locked up.

Hazardous components which must be listed on the label: levamisole hydrochloride

2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Components

Chemical name	CAS-No. EC-No. Index-No. Registration number	Classification	Concentration (% w/w)
levamisole hydrochloride	16595-80-5 240-654-6	Acute Tox. 3; H301 Repr. 2; H361d STOT RE 2; H373 (Blood, Testis) Aquatic Chronic 3; H412	>= 3 - < 10
Citric acid	77-92-9 201-069-1 607-750-00-3	Eye Irrit. 2; H319 STOT SE 3; H335	>= 1 - < 10

For explanation of abbreviations see section 16.

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SECTION 4: First aid measures

4.1 Description of 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.			
Protection of first-aiders	:	First Aid responders should pay attention to self-protection, and use the recommended personal protective equipment when the potential for exposure exists (see section 8).			
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	:	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.			
4.2 Most important symptoms an	nd e	effects, both acute and delayed			
Risks	:	Suspected of damaging the unborn child.			

4.3 Indication of any immediate medical attention and special treatment needed Treatment : Treat symptomatically and supportively.

SECTION 5: Firefighting measures

5.1 Extinguishing media		
Suitable extinguishing media	:	Water spray Alcohol-resistant foam Carbon dioxide (CO2) Dry chemical
Unsuitable extinguishing media	:	None known.



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5.2 \$	Special	hazards arising from	the	e substance or mi	xture
Specific hazards during fire- fighting		:	Exposure to com	oustion products may be a hazard to health.	
	Hazardous combustion prod- ucts		:	Carbon oxides	
5.3	Advice	for firefighters			
	Specia for firef	l protective equipment ighters	:		e, wear self-contained breathing apparatus. tective equipment.
	Specifi ods	c extinguishing meth-	:	cumstances and t Use water spray t	g measures that are appropriate to local cir- the surrounding environment. to cool unopened containers. ged containers from fire area if it is safe to do

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions	:	Use personal protective equipment. Follow safe handling advice (see section 7) and personal pro-
		tective equipment recommendations (see section 8).
6.2 Environmental precautions		
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.
		If spillage enters rivers or watercourses, inform the Environ- ment Agency (emergency telephone number 0800 807060).
6.3 Methods and material for co	ntai	nment and cleaning up
Methods for cleaning up	:	I
		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.
Clean up remaining materials from spill with suitable absorbent.
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 determine which regulations are applicable.
Sections 13 and 15 of this SDS provide information regarding certain local or national requirements.



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6.4 Reference to other sections

See sections: 7, 8, 11, 12 and 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Technical measures	:	See Engineering measures under EXPOSURE CONTROLS/PERSONAL PROTECTION section.
Local/Total ventilation Advice on safe handling Hygiene measures	:	Use only with adequate ventilation. Do not breathe mist or vapours. Do not swallow. Avoid contact with eyes. Avoid prolonged or repeated contact with skin. Handle in accordance with good industrial hygiene and safety practice, based on the results of the workplace exposure as- sessment Take care to prevent spills, waste and minimize release to the environment. If exposure to chemical is likely during typical use, provide eye
		flushing systems and safety showers close to the working place. When using do not eat, drink or smoke. Wash contami- nated clothing before re-use. The effective operation of a facility should include review of engineering controls, proper personal protective equipment, appropriate degowning and decontamination procedures, industrial hygiene monitoring, medical surveillance and the use of administrative controls.
7.2 Conditions for safe storage, in	ncl	uding any incompatibilities
Requirements for storage areas and containers	:	Keep in properly labelled containers. Store locked up. Store in accordance with the particular national regulations.
Advice on common storage	:	Do not store with the following product types: Strong oxidizing agents Gases
7.3 Specific end use(s)		
Specific use(s)	:	No data available

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational Exposure Limits

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
levamisole hydro- chloride	16595-80-5	TWA	20 µg/m3 (OEB 3)	Internal



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	Further informa			
		Wipe limit	200 µg/100 cm ²	Internal

Predicted No Effect Concentration (PNEC)

Substance name	Environmental Compartment	Value
Citric acid	Fresh water	0.44 mg/l
	Marine water	0.044 mg/l
	Sewage treatment plant	1000 mg/l
	Fresh water sediment	34.6 mg/kg dry weight (d.w.)
	Marine sediment	3.46 mg/kg dry weight (d.w.)
	Soil	33.1 mg/kg dry weight (d.w.)

8.2 Exposure controls

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 containment devices).

Minimize open handling.

Personal protective equipment

Eye/face protection	:	Wear safety glasses with side shields or goggles. If the work environment or activity involves dusty conditions, mists or aerosols, wear the appropriate goggles. Wear a faceshield or other full face protection if there is a potential for direct contact to the face with dusts, mists, or aerosols.
Hand protection		
Material	:	Chemical-resistant gloves
Remarks Skin and body protection	:	Consider double gloving. Work uniform or laboratory coat. Additional body garments should be used based upon the task being performed (e.g., sleevelets, apron, gauntlets, disposable suits) to avoid exposed skin surfaces. Use appropriate degowning techniques to remove potentially contaminated clothing.
Respiratory protection Filter type	:	If adequate local exhaust ventilation is not available or expo- sure assessment demonstrates exposures outside the rec- ommended guidelines, use respiratory protection. Equipment should conform to BS EN 143 Particulates type (P)



oxidizing.

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SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

••••	internation on baole phycloa		a chomea properties
	Appearance Colour	:	liquid clear yellow
	Odour Odour Threshold		No data available No data available
	рН	:	No data available
	Melting point/freezing point	:	No data available
	Initial boiling point and boiling	:	No data available
	range Flash point	:	No data available
	Evaporation rate	:	No data available
	Flammability (solid, gas)	:	Not applicable
	Upper explosion limit / Upper flammability limit	:	No data available
	Lower explosion limit / Lower flammability limit	:	No data available
	Vapour pressure	:	No data available
	Relative vapour density	:	No data available
	Relative density	:	No data available
	Density	:	No data available
	Solubility(ies) Water solubility Partition coefficient: n- octanol/water Auto-ignition temperature	:	No data available Not applicable No data available
	Decomposition temperature		
	Viscosity		
	Viscosity, kinematic	:	No data available
	Explosive properties	:	Not explosive
	Oxidizing properties	:	The substance or mixture is not classified as

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	information nability (liquids)	: No data availal	ble		
Molecular weight		: No data availal	: No data available		
Partic	le size	: Not applicable			

SECTION 10: Stability and reactivity

10.1 Reactivity

Not classified as a reactivity hazard.

10.2 Chemical stability

Stable under normal conditions.

10.3 Possibility of hazardous reactions

Hazardous reactions : Can react with strong oxidizing agents.

10.4 Conditions to avoid

Conditions to avoid : None known.

10.5 Incompatible materials

Materials to avoid : Oxidizing agents

10.6 Hazardous decomposition products

No hazardous decomposition products are known.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

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

Components:

levamisole hydrochloride:

Acute oral toxicity : LD50 (Rat): 180 mg/kg



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			LD50 (Mouse): 2	223 mg/kg
			LD50 (Rabbit): 4	58 mg/kg
Acute	inhalation toxicity	:	Remarks: No da	ta available
Acute	dermal toxicity	:	Remarks: No da	ta available
Citric	acid:			
	oral toxicity	:	LD50 (Mouse): 5	5,400 mg/kg
Acute	dermal toxicity	:		000 mg/kg Test Guideline 402 e substance or mixture has no acute derma
	corrosion/irritation assified based on ava	ailable	information.	
Comp	oonents:			
levan	nisole hydrochloride):		
Rema	irks	:	No data availabl	e
Citric Speci Metho Resul	es od	:	Rabbit OECD Test Guid No skin irritation	
	us eye damage/eye assified based on ava			
	onents:			
	nisole hydrochloride			
Rema	-	:	No data availabl	e
Citric	acid:			
Speci		:	Rabbit	
Metho	bd	:	OECD Test Guid	
Resul	4		Irritation to aver-	, reversing within 21 days

Skin sensitisation

Not classified based on available information.



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Resp	iratory sensitisation			
Not c	lassified based on avail	able	information.	
Com	ponents:			
levar	nisole hydrochloride:			
Rema	arks	:	No data available)
	n cell mutagenicity lassified based on availa	able	information.	
Com	ponents:			
levar	nisole hydrochloride:			
	toxicity in vitro	:	Test Type: Bacte Result: negative	rial reverse mutation assay (AMES)
			Test Type: Chror Result: negative	nosome aberration test in vitro
Citric	acid:			
	toxicity in vitro	:	Test Type: Bacte Result: negative	rial reverse mutation assay (AMES)
			Test Type: in vitre Result: positive	o micronucleus test
			Test Type: Bacte Result: negative	rial reverse mutation assay (AMES)
Geno	toxicity in vivo	:		genicity (in vivo mammalian bone-marrow chromosomal analysis) e: Ingestion
Carc	inogenicity			
Not c	lassified based on availa	able	information.	
<u>Com</u>	ponents:			
levar	nisole hydrochloride:			
Spec		:	Mouse	
	cation Route	÷	Oral 2 Years	
NOA	sure time EL	:	2 rears 80 mg/kg body w	eight
Rema		:		verse effects were reported
Spec	ies		Rat	
	cation Route	:	Oral	
			10 / 17	



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	Exposure time NOAEL Remarks		:	2 Years 40 mg/kg body w No significant adv	eight /erse effects were reported		
		ductive toxicity cted of damaging the u	inbo	rn child.			
	Comp	onents:					
	levami	sole 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		:	Species: Rat Application Route Developmental T Result: Fetotoxici	oxicity: NOAEL: 20 mg/kg body weight ty		
				Species: Rabbit Application Route	oxicity: LOAEL: 40 mg/kg body weight		
	Reproc sessmo	ductive toxicity - As- ent	:	Some evidence o animal experimer	f adverse effects on development, based on nts.		
	Citric a	acid:					
		on foetal develop-	:	Test Type: One-g Species: Rat Application Route Result: negative	eneration reproduction toxicity study e: Ingestion		
		- single exposure ssified based on availa	able	information.			
	Comp	onents:					
	Citric a	acid:					
	Assess	sment	:	May cause respir	atory irritation.		

STOT - repeated exposure

Not classified based on available information.



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ersion 1	Revision Date: 28.09.2024	SDS Nu 108494	ımber: 40-00006	Date of last issue: 06.04.2024 Date of first issue: 09.09.2022
Com	oonents:			
Targe	hisole hydrochloride: et Organs ssment	: May	od, Testis z cause dama osure.	ge to organs through prolonged or repeated
Repe	ated dose toxicity			
Comp	oonents:			
levan	nisole hydrochloride:			
Expos		: Ora	/Ionths	
Expos		: Ora	mg/kg I ⁄Ionths	
		: Ora	mg/kg	
Citric	acid:			
Speci NOAE LOAE Applic	es EL	: 8,0 : Inge	00 mg/kg 00 mg/kg estion Days	
-	ation toxicity assified based on availa	ble infor	mation.	
Expe	rience with human exp	osure		
<u>Comp</u>	oonents:			
levan Inges	nisole hydrochloride: tion	: Syn tens		ea, Vomiting, Headache, Dizziness, hypo-



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SECTION 12: Ecological information

12.1 Toxicity

Components:
levamisole hydrochloride:
Tovicity to fich

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

12.2 Persistence and degradability

Components:

Citric acid:

Biodegradability	: Result: Readily biodegradable.
	Biodegradation: 97 %
	Exposure time: 28 d
	Method: OECD Test Guideline 301B

12.3 Bioaccumulative potential

Components:

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

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

Product:

Assessment	: This substance/mix
	to be either persiste
	very persistent and

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.



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12.6 Other adverse effects

Product:

Endocrine disrupting poten- tial	:	This substance/mixture does not contain components consid- ered to have endocrine disrupting properties for environment according to UK REACH Article 57(f).
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SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product	:	Dispose of in accordance with local regulations. According to the European Waste Catalogue, Waste Codes are not product specific, but application specific. Waste codes should be assigned by the user, preferably in discussion with the waste disposal authorities. Do not dispose of waste into sewer.
Contaminated packaging	:	

SECTION 14: Transport information

14.1 UN number

	ADN	:	Not regulated as a dangerous good
	ADR	:	Not regulated as a dangerous good
	RID	:	Not regulated as a dangerous good
	IMDG	:	Not regulated as a dangerous good
	ΙΑΤΑ	:	Not regulated as a dangerous good
14.2	2 UN proper shipping name		
	ADN	:	Not regulated as a dangerous good
	ADR	:	Not regulated as a dangerous good
	RID	:	Not regulated as a dangerous good
	IMDG	:	Not regulated as a dangerous good
	ΙΑΤΑ	:	Not regulated as a dangerous good
14.3	3 Transport hazard class(es)		
	ADN	:	Not regulated as a dangerous good
	ADR	:	Not regulated as a dangerous good
	RID	:	Not regulated as a dangerous good
	IMDG	:	Not regulated as a dangerous good

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ΙΑΤΑ		:	Not regulated as	a dange	rous good
14.4 Pack	ing group				
ADN	ADN		Not regulated as a dangerous good		rous good
ADR		:	Not regulated as a dangerous good		
RID		:	Not regulated as a dangerous good		
IMDG		:	: Not regulated as a dangerous good		
IATA (Cargo)		:	Not regulated as a dangerous good		
IATA (Passenger)		:	Not regulated as a dangerous good		
14.5 Environmental hazards Not regulated as a dangerous goo			od		
•	ial precautions for us pplicable	er			
	14.7 Transport in bulk according to Annex II of Marpol and the IBC Code Remarks : Not applicable for product as supplied.				
SECTION 15: Regulatory information					
15.1 Safety, health and environmental regulations/legislation specific for the substance or mix- ture					
Relevant l	EU provisions transpose	ed th	rough retained EU	law	
UK REACH List of restrictions		s (A	(Annex 17)		Conditions of restriction for the fol- lowing entries should be considered: Number on list 3
ם אוו	EACH Candidata list of		stances of yory big	ь ·	Substance(s) or mixture(s) are listed here according to their appearance in the regulation, irrespective of their use/purpose or the conditions of the restriction. Please refer to the condi- tions in corresponding Regulation to determine whether an entry is appli- cable to the placing on the market or not.
	EACH Candidate list of			n :	Not applicable

concern (SVHC) for Authorisation The Persistent Organic Pollutants Regulations (retained : Not applicable Regulation (EU) 2019/1021 as amended for Great Britain) Regulation (EC) on substances that deplete the ozone : Not applicable layer UK REACH List of substances subject to authorisation : Not applicable (Annex XIV)



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Informed Consent (PIC) Regulation Control of Major Accident Hazards Regulations 2015 (COMAH) Not applicable

Other regulations:

Take note of The Management of Health and Safety at Work Regulations 1999 (requirements relating to new and expectant mothers at work contained in Regulation 16 to 18) and of the Pregnant Workers Directive 92/85/EEC.

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

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

15.2 Chemical safety assessment

A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

Other information :		Items where changes have been made to the previous versio are highlighted in the body of this document by two vertical lines.		
Full text of H-Statements				
H301 H319 H335 H361d H373 H412	: : : : : : : : : : : : : : : : : : : :	Toxic if swallowed. Causes serious eye irritation. May cause respiratory irritation. Suspected of damaging the unborn child. May cause damage to organs through prolonged or repeated exposure if swallowed. Harmful to aquatic life with long lasting effects.		
Full text of other abbreviations				
Acute Tox. Aquatic Chronic Eye Irrit. Repr. STOT RE STOT SE		Acute toxicity Long-term (chronic) aquatic hazard Eye irritation Reproductive toxicity Specific target organ toxicity - repeated exposure Specific target organ toxicity - single exposure		

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergen-



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cy Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; 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; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; 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; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of very high concern; TCSI - Taiwan Chemical Substance Inventory; 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

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/

Classification of the mixture:

Classification of the mixtur	Classification procedure:	
Repr. 2	H361d	Calculation method

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.

GB / EN