according to GB/T 16483 and GB/T 17519



Abamectin Liquid Formulation

Version	Revision Date:	SDS Number:	Date of last issue: 2023/04/04
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1. PRODUCT AND COMPANY IDENTIFICATION

Product name	:	Abamectin Liquid Formulation		
Manufacturer or supplier's details Company : MSD				
Address	:	No. 485 Jing Tai Road Pu Tuo District - Shanghai - China 200331		
Telephone	:	+1-908-740-4000		
Emergency telephone number	:	86-571-87268110		
E-mail address	:	EHSDATASTEWARD@msd.com		
Recommended use of the chemical and restrictions on use				
Recommended use Restrictions on use	:	Veterinary product Not applicable		

2. HAZARDS IDENTIFICATION

Emergency Overview

Appearance Colour Odour	::	liquid light yellow characteristic
		mful if inhaled. May cause damage to organs through prolonged to aquatic life with long lasting effects.
GHS Classification		
Acute toxicity (Oral)	:	Category 5
Acute toxicity (Inhalation)	:	Category 4
Specific target organ toxicity - repeated exposure	:	Category 2
Short-term (acute) aquatic hazard	:	Category 1
Long-term (chronic) aquatic hazard	:	Category 1

GHS label elements



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Hazaro	d pictograms		
Signal	word	: Warning	\mathbf{v}
Hazaro	d statements	H332 Harmful if i H373 May cause peated exposure	damage to organs through prolonged or re-
Precau	utionary statements	P271 Use only of	athe mist or vapours. utdoors or in a well-ventilated area. use to the environment.
		and keep comfor doctor if you feel	SON CENTER/ doctor if you feel unwell.
		Disposal: P501 Dispose of disposal plant.	contents/ container to an approved waste

Physical and chemical hazards

Not classified based on available information.

Health hazards

May be harmful if swallowed. Harmful if inhaled. May cause damage to organs through prolonged or repeated exposure.

Environmental hazards

Very toxic to aquatic life. Very toxic to aquatic life with long lasting effects.

Other hazards which do not result in classification

None known.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Components

Chemical name	CAS-No.	Concentration (% w/w)
abamectin (combination of avermectin B1a and	71751-41-2	>= 1 -< 2.5
avermectin B1b) (ISO)		

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General advice	:	In the case of accident or if you feel unwell, seek medical vice immediately. When symptoms persist or in all cases of doubt seek med advice.
If inhaled	:	If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.
In case of skin contact	:	In case of contact, immediately flush skin with soap and pl 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.
Most important symptoms and effects, both acute and delayed	:	May be harmful if swallowed. Harmful if inhaled. May cause damage to organs through prolonged or repeatexposure.
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).
Notes to physician	:	Treat symptomatically and supportively.

Suitable extinguishing media	:	Water spray Alcohol-resistant foam Carbon dioxide (CO2) Dry chemical
Unsuitable extinguishing media	:	None known.
Specific hazards during fire- fighting	:	Exposure to combustion products may be a hazard to health.
Hazardous combustion prod- ucts	:	Carbon oxides
Specific extinguishing meth- ods	:	Use extinguishing measures that are appropriate to local cir- cumstances and the surrounding environment. Use water spray to cool unopened containers. Remove undamaged containers from fire area if it is safe to do so. Evacuate area.
Special protective equipment	:	In the event of fire, wear self-contained breathing apparatus.

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for firefighters	Use personal protective equipment.
6. ACCIDENTAL RELEASE MEAS	URES
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 containment 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.

7. HANDLING AND STORAGE

Handling		
Technical measures	: See Engineering measures under EXPOSURE CONTROLS/PERSONAL PROTECTION section.	
Local/Total ventilation	: If sufficient ventilation is unavailable, use with local exhaust ventilation.	
Advice on safe handling	 Do not breathe mist or vapours. Do not swallow. Avoid contact with eyes. Avoid prolonged or repeated contact with skin. Wash skin thoroughly after handling. Handle in accordance with good industrial hygiene and safety practice, based on the results of the workplace exposure as- sessment Keep container tightly closed. Do not eat, drink or smoke when using this product. Take care to prevent spills, waste and minimize release to the 	
Avoidance of contact	environment. : Oxidizing agents	



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Storage

Conditions for safe storage Materials to avoid		Keep in properly labelled containers. Keep tightly closed. Keep in a cool, well-ventilated place. 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

Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parame- ters / Permissible concentration	Basis
abamectin (combination of avermectin B1a and avermec- tin B1b) (ISO)	71751-41-2	TWA	15 μg/m3 (OEB 3)	Internal
		Wipe limit	150 µg/100 cm ²	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 equipment	
Descritation interation	If a deguate least exhaust ventilation is not available or even

Respiratory protection	:	If adequate local exhaust ventilation is not available or expo- sure assessment demonstrates exposures outside the rec- ommended guidelines, use respiratory protection.
Filter type	:	Combined particulates and organic vapour type
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.
Skin and body protection	:	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.

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Hand p	protection			
Ma	terial	:	Chemical-resistar	nt gloves
	marks ne measures		eye flushing syste ing place. When using do no Wash contaminat The effective ope engineering contr appropriate degor	emical is likely during typical use, provide ems and safety showers close to the work- ot eat, drink or smoke. ed clothing before re-use. ration of a facility should include review of ols, proper personal protective equipment, wning and decontamination procedures, e monitoring, medical surveillance and the

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	liquid
Colour	:	light yellow
Odour	:	characteristic
Odour Threshold	:	No data available
рН	:	No data available
Melting point/freezing point	:	No data available
Initial boiling point and boiling range	:	No data available
Flash point	:	No data available
Evaporation rate	:	No data available
Flammability (solid, gas)	:	Not applicable
Flammability (liquids)	:	No data available
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

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Den	sity	:	0.90 - 0.94 g/cm	3
		•	0.90 - 0.94 g/cm	-
	ıbility(ies) Vater solubility	:	insoluble	
	ition coefficient: n-	:	Not applicable	
	nol/water p-ignition temperature	:	No data available	e
Dec	omposition temperature	:	No data available	e
	osity /iscosity, kinematic	:	No data available	e
Expl	osive properties	:	Not explosive	
Oxic	lizing properties	:	The substance of	r mixture is not classified as oxidizing.
Mole	ecular weight	:	No data availabl	e
Part	icle size	:	Not applicable	

10. STABILITY AND REACTIVITY

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

11. TOXICOLOGICAL INFORMATION

Exposure routes	: Inhalation Skin contact Ingestion Eye contact
Acute toxicity	

May be harmful if swallowed. Harmful if inhaled.

Product:

Acute oral toxicity

: Acute toxicity estimate: 2,400 mg/kg Method: Calculation method





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Acute	e inhalation toxicity	Exposure ti Test atmos	ity estimate: 2.3 mg/l me: 4 h phere: dust/mist llculation method
Acute	e dermal toxicity		ity estimate: > 5,000 mg/kg alculation method
<u>Com</u>	ponents:		
	nectin (combination of e oral toxicity	avermectin B1a : LD50 (Rat)	a and avermectin B1b) (ISO): 24 mg/kg
		LD50 (Mou	se): 10 mg/kg
			key): 24 mg/kg Dilatation of the pupil
Acute	e inhalation toxicity	Exposure ti	: 0.023 mg/l me: 4 h phere: dust/mist
Acute	e dermal toxicity	: LD50 (Rat)	: 330 mg/kg
		LD50 (Rabl	bit): 2,000 mg/kg
Not c	corrosion/irritation lassified based on avail ponents:	able information.	
		avermectin B1a	and avermectin B1b) (ISO):
Spec	•	: Rabbit	
Resu	lt	: No skin irrit	ation
	ous eye damage/eye ir lassified based on avail		
<u>Com</u>	ponents:		
aban	nectin (combination of	avermectin B1a	and avermectin B1b) (ISO):
Spec Resu		: Rabbit : Mild eye irr	itation
Resp	piratory or skin sensiti	sation	
Skin	sensitisation		
-	lassified based on avail	able information.	

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Respiratory sensitisation

Not classified based on available information.

Components:

abamectin (combination of avermectin B1a and avermectin B1b) (ISO):

Test Type	:	Maximisation Test
Exposure routes	:	Skin contact
Result	:	Not a skin sensitizer.

Germ cell mutagenicity

Not classified based on available information.

Components:

abamectin (combination of avermectin B1a and avermectin B1b) (ISO):

Genotoxicity in vitro	: Test Type: Bacterial reverse mutation assay (AMES) Result: negative
	Test Type: In vitro mammalian cell gene mutation test Test system: Chinese hamster lung cells Result: negative
	Test Type: Alkaline elution assay Result: negative
Genotoxicity in vivo	: Test Type: Mutagenicity (in vivo mammalian bone-marrow cytogenetic test, chromosomal analysis) Species: Mouse Application Route: Intraperitoneal injection Result: negative

Carcinogenicity

Not classified based on available information.

Components:

abamectin (combination of avermectin B1a and avermectin B1b) (ISO):

Species	:	Rat
Application Route	:	Oral
Exposure time	:	105 weeks
Result	:	negative
		•
Species	:	Mouse
Species Application Route	:	Mouse Oral
	:	
Application Route	:	Oral

Reproductive toxicity

Not classified based on available information.

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Components:

abamectin (combination of avermectin B1a and avermectin B1b) (ISO):				
Effects on fertility :	Test Type: Fertility Species: Rat, male Application Route: Oral			
	Result: Effects on fertility			
	Test Type: Two-generation reproduction toxicity study Species: Rat Application Route: Oral Early Embryonic Development: NOAEL: 0.12 mg/kg body weight Result: Fetotoxicity			
Effects on foetal develop- : ment	Test Type: Embryo-foetal development Species: Mouse Application Route: Oral General Toxicity Maternal: NOAEL: 0.05 mg/kg body weight Developmental Toxicity: NOAEL: 0.2 mg/kg body weight Result: Cleft palate Remarks: Adverse developmental effects were observed			
	Test Type: Embryo-foetal development Species: Rabbit Application Route: Oral Developmental Toxicity: LOAEL: 2 mg/kg body weight Result: Cleft palate, Teratogenic effects, Reduced embryonic survival Remarks: Adverse developmental effects were observed			
	Test Type: Development Species: Rat Application Route: Oral Developmental Toxicity: LOAEL: 1.6 mg/kg body weight Result: Teratogenic effects			
Reproductive toxicity - As- : sessment	Some evidence of adverse effects on sexual function and fertility, based on animal experiments., Some evidence of adverse effects on development, based on animal experiments.			

STOT - single exposure

Not classified based on available information.

STOT - repeated exposure

May cause damage to organs through prolonged or repeated exposure.

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Components:

abamectin (combination of avermectin B1a and avermectin B1b) (ISO):

Exposure routes Target Organs Assessment	:	Ingestion Central nervous system Causes damage to organs through prolonged or repeated exposure
		exposure.

Repeated dose toxicity

Components:

abamectin (combination of avermectin B1a and avermectin B1b) (ISO):

Species NOAEL Application Route Exposure time Target Organs Symptoms	 Rat 1.5 mg/kg Oral 24 Months Central nervous system Tremors, ataxia
Species NOAEL Application Route Exposure time Target Organs Symptoms	 Mouse 4.0 mg/kg Oral 24 Months Central nervous system Tremors, ataxia
Species NOAEL LOAEL Application Route Exposure time Target Organs Symptoms Remarks	 Dog 0.25 mg/kg 0.5 mg/kg Oral 53 Weeks Central nervous system Tremors, weight loss mortality observed
Species NOAEL Application Route Exposure time Target Organs	: Monkey : 1.0 mg/kg : Oral : 14 Weeks : Central nervous system

Aspiration toxicity

Not classified based on available information.

Experience with human exposure

Components:

abamectin (combination of avermectin B1a and avermectin B1b) (ISO):

Ingestion : Symptoms: May cause, Tremors, Diarrhoea, central nervous

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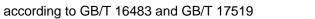
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		system effects,	Salivation, tearing			

12. ECOLOGICAL INFORMATION

Ecotoxicity

Components:

	components:				
abamectin (combination of aver Toxicity to fish :			rmectin B1a and avermectin B1b) (ISO): LC50 (Oncorhynchus mykiss (rainbow trout)): 3.2 μg/l Exposure time: 96 h		
			LC50 (Lepomis macrochirus (Bluegill sunfish)): 9.6 µg/l Exposure time: 96 h		
			LC50 (Ictalurus punctatus (channel catfish)): 24 µg/l Exposure time: 96 h		
			LC50 (Cyprinus carpio (Carp)): 42 µg/l Exposure time: 96 h		
			LC50 (Cyprinodon variegatus (sheepshead minnow)): 15 µg/l Exposure time: 96 h		
	Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Americamysis): 0.022 μg/l Exposure time: 96 h		
			EC50 (Daphnia magna (Water flea)): 0.34 μg/l Exposure time: 48 h		
	Toxicity to algae/aquatic plants	:	EC50 (Pseudokirchneriella subcapitata (green algae)): 100 mg/l Exposure time: 72 h		
		:	10,000		
	icity) Toxicity to fish (Chronic tox- icity)	:	NOEC (Pimephales promelas (fathead minnow)): 0.52 µg/l Exposure time: 32 d		
	Toxicity to daphnia and other aquatic invertebrates (Chron-	:	NOEC (Daphnia magna (Water flea)): 0.03 μg/l Exposure time: 21 d		
	ic toxicity)		NOEC (Mysidopsis bahia (opossum shrimp)): 0.0035 µg/l Exposure time: 28 d		
	M-Factor (Chronic aquatic	:	10,000		
	toxicity) Toxicity to microorganisms	:	EC50: > 1,000 mg/l Exposure time: 3 h Test Type: Respiration inhibition		





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	istence and degradal ponents:	oility		
			rmaatin B1a and	avermentin B1h) (ISO):
	lity in water	: :		l avermectin B1b) (ISO): 6(< 12 h)
Bioa	ccumulative potentia	I		
Com	ponents:			
	nectin (combination o	of ave :		I avermectin B1b) (ISO): n factor (BCF): 52
	ion coefficient: n- nol/water	:	log Pow: 4	
Mobi	lity in soil			
Com	ponents:			
Distri	nectin (combination of bution among environ- al compartments			l avermectin B1b) (ISO):
	r adverse effects ata available			
3. DISPC	SAL CONSIDERATIO	ONS		
Disp	osal methods			
Wast	e from residues	:		of waste into sewer. cordance with local regulations.
Conta	aminated packaging	:	Empty contained dling site for rec	rs should be taken to an approved waste han ycling or disposal. specified: Dispose of as unused product.
4. TRAN	SPORT INFORMATIC	N		
Inter	national Regulations			
	TDG umber er shipping name	:	N.O.S.	TALLY HAZARDOUS SUBSTANCE, LIQUID
Class Packi Label	ing group	:	B1b) (ISO)) 9 III 9	

Labels : 9 Environmentally hazardous : yes

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IATA-DGR

UN/ID No.	:	UN 3082
Proper shipping name	:	Environmentally hazardous substance, liquid, n.o.s. (abamectin (combination of avermectin B1a and avermectin B1b) (ISO))
Class	:	9
Packing group	:	III
Labels	:	Miscellaneous
Packing instruction (cargo aircraft)	:	964
Packing instruction (passen- ger aircraft)	:	964
Environmentally hazardous	:	yes
IMDG-Code		
UN number	:	UN 3082
Proper shipping name	:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
		(abamectin (combination of avermectin B1a and avermectin B1b) (ISO))
Class	:	9
Packing group	:	III
Labels	:	9
EmS Code	:	F-A, S-F
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

GB 6944/12268

UN number	:	UN 3082
Proper shipping name	:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
		(abamectin (combination of avermectin B1a and avermectin
		B1b) (ISO))
Class	:	9
Packing group	:	
Labels	:	9
Marine pollutant	:	no

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

National regulatory information Law on the Prevention and Control of Occupational Diseases





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Yangtze River Protection Law

This product does not contain any dangerous chemicals prohibited for inland river transport.

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

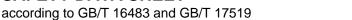
AICS	: not determined
DSL	: not determined
IECSC	: not determined

16. OTHER INFORMATION

Revision Date	:	2023/09/30
Further information		
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

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; 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

Disclaimer

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.

CN/EN