



Version	Revision Date:	SDS Number:	Date of last issue: 2024/04/06
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1. PRODUCT AND COMPANY IDENTIFICATION

Chemical product name	:	Fenbendazole (4%) Solid Formulation
Supplier's company name, ad Company name of supplier		ess and phone number MSD
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 chemic Reproductive toxicity	al :	
Short-term (acute) aquatic hazard	:	Category 1
Long-term (chronic) aquatic hazard	:	Category 1
GHS label elements		
Hazard pictograms	:	
Signal word	:	Warning
Hazard statements	:	H361fd Suspected of damaging fertility. Suspected of damag- ing the unborn child. H410 Very toxic to aquatic life with long lasting effects.
Precautionary statements	:	Prevention: P201 Obtain special instructions before use. P202 Do not handle until all safety precautions have been read



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			lease to the environment. otective gloves/ protective clothing/ eye protec
		Response: P308 + P313 I attention. P391 Collect s	F exposed or concerned: Get medical advice/ pillage.
		Storage: P405 Store loc	ked up.
		Disposal: P501 Dispose disposal plant.	of contents/ container to an approved waste
Othe	r hazards which do not	t result in classifica	tion
	rtant symptoms and out- of the emergency as- ed	Contact with d the skin.	vith the eyes can lead to mechanical irritation. ust can cause mechanical irritation or drying c osive dust-air mixture during processing, han-
		dling or other r	
	OSITION/INFORMATION	N ON INGREDIENTS	3
Subs	tance / Mixture	: Mixture	
Com	ponents		

Components

Chemical name	CAS-No.	Concentration (% w/w)	ENCS No.
Starch	9005-25-8	>= 30 - < 40	8-98
fenbendazole	43210-67-9	>= 3 - < 10	

4. FIRST AID MEASURES

General advice	 In the case of accident or if you feel unwell, seek medical advice immediately. When symptoms persist or in all cases of doubt seek medical advice.
If inhaled	: If inhaled, remove to fresh air. Get medical attention.
In case of skin contact	 In case of contact, immediately flush skin with soap and plenty of water. Remove contaminated clothing and shoes. Get medical attention. Wash clothing before reuse. Thoroughly clean shoes before reuse.
In case of eye contact	: If in eyes, rinse well with water. Get medical attention if irritation develops and persists.
If swallowed	: If swallowed, DO NOT induce vomiting.



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and dela Prote	t important symptoms effects, both acute and yed ection of first-aiders es to physician	:	Suspected of dan unborn child. Contact with dust the skin. Dust contact with First Aid responde and use the recor when the potentia	tion. oughly with water. naging fertility. Suspected of damaging the can cause mechanical irritation or drying of the eyes can lead to mechanical irritation. ers should pay attention to self-protection, nmended personal protective equipment of for exposure exists (see section 8). cally and supportively.
	IGHTING MEASURES			
	able extinguishing media	:	Water spray Alcohol-resistant Carbon dioxide (0 Dry chemical	
Unsi med	uitable extinguishing ia	:	None known.	
Spec fight	cific hazards during fire- ing	:	concentrations, a potential dust exp	dust; fine dust dispersed in air in sufficient nd in the presence of an ignition source is a losion hazard. pustion products may be a hazard to health.
Haza ucts	ardous combustion prod-	:	Carbon oxides Nitrogen oxides (I Sulphur oxides Metal oxides Silicon oxides	NOx)
Spec ods	cific 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
	cial protective equipment refighters	:		e, wear self-contained breathing apparatus. tective equipment.
6. ACCID	DENTAL RELEASE MEAS	SUF	RES	
tive	conal precautions, protec- equipment and emer-	:	Follow safe hand	tective equipment. ing advice (see section 7) and personal pro-

gency procedures		tective equipment recommendations (see section 8).
Environmental precautions	:	Avoid release to the environment. Prevent further leakage or spillage if safe to do so. Retain and dispose of contaminated wash water.



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			Local authorities cannot be contai	should be advised if significant spillages ned.		
Methods and materials for containment and cleaning up		:	 Sweep up or vacuum up spillage and collect in suitatianer for disposal. Avoid dispersal of dust in the air (i.e., clearing dust swith compressed air). Dust deposits should not be allowed to accumulate es, as these may form an explosive mixture if they a leased into the atmosphere in sufficient concentration Local or national regulations may apply to releases posal of this material, as well as those materials and employed in the cleanup of releases. You will need mine which regulations are applicable. Sections 13 and 15 of this SDS provide information certain local or national requirements. 			
	ING AND STORAGE					
Hanc Tech	lling nical measures	:	causing an explo Provide adequat	e precautions, such as electrical grounding		
	l/Total ventilation e on safe handling	:	Use only with ad Do not breathe d Do not swallow. Avoid contact with Avoid prolonged Handle in accord practice, based of sessment			
	Avoidance of contact Hygiene measures		Keep container of Keep away from Take precautiona Take care to pre- environment. Oxidizing agents If exposure to ch flushing systems place. When using do r Wash contamina The effective ope engineering cont appropriate dego	closed when not in use. heat and sources of ignition. ary measures against static discharges. vent spills, waste and minimize release to the		



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Stora	age		
Cond	litions for safe storage	Store locked u	rly labelled containers. p. dance with the particular national regulations.
Mate	rials to avoid		ith the following product types:
Pack	aging material	: Unsuitable ma	terial: None known.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

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

Components	CAS-No.	Value type (Form of exposure)	Control parame- ters / Concentra- tion standard / Permissible con- centration	Basis
Starch	9005-25-8	TWA	10 mg/m3	ACGIH
fenbendazole	43210-67-9	TWA	100 µg/m3 (OEB 2)	Internal

Engineering measures	:	Use feasible engineering controls to minimize exposure to compound. All engineering controls should be implemented by facility design and operated in accordance with GMP principles to protect products, workers, and the environment.
Personal protective equipme	ent	
Respiratory protection	:	If adequate local exhaust ventilation is not available or expo- sure assessment demonstrates exposures outside the rec- ommended guidelines, use respiratory protection. Particulates type
Hand protection		
Material	•	Chemical-resistant gloves
Eye 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.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state	:	powder
Colour	:	white
Odour	:	odourless



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	Odour	Threshold	:	No data available	
	Melting	point/freezing point	:	No data available	
		point, initial boiling nd boiling range	:	Not applicable	
	Flamm	ability (solid, gas)	:	May form explosi dling or other mea	ve dust-air mixture during processing, han- ans.
	Flamm	ability (liquids)	:	Not applicable	
	Upp	explosion limit and uppe per explosion limit / Up- flammability limit			
		ver explosion limit / ver flammability limit	:	No data available	
	Flash p	point	:	Not applicable	
	Self-igr	nition	:	No data available	
	Decom	position temperature	:	No data available	
	рН		:	6 - 8	
	Evapor	ation rate	:	Not applicable	
	Auto-ig	nition temperature	:	No data available	
	Viscosi Visc	ity cosity, kinematic	:	Not applicable	
	Solubil Wat	ity(ies) ter solubility	:	insoluble	
	Solu	ubility in other solvents	:	No data available	
	Partitio octano	n coefficient: n- I/water	:	Not applicable	
	Vapour	rpressure	:	No data available	
		/ and / or relative densit ative density	у :	No data available	
	Der	nsity	:	No data available	
	Relativ	e vapour density	:	Not applicable	



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E	Explosiv	ve properties	:	Not explosive	
C	Oxidizir	ng properties	:	The substance of	r mixture is not classified as oxidizing.
Ν	Molecul	ar weight	:	No data available)
F		characteristics cle size	:	No data available	
10. S ⁻	TABILI	TY AND REACTIVITY	,		
(F		ity al stability ity of hazardous reac-	:	Stable under norm May form explosi dling or other me	ve dust-air mixture during processing, han-
C	Conditio	ons to avoid	:	Heat, flames and	
F		atible materials ous decomposition s	:	Avoid dust forma Oxidizing agents No hazardous de	tion. composition products are known.
11. T	OXICO	LOGICAL INFORMAT		I	
	nforma exposui	tion on likely routes of re	:	Inhalation Skin contact Ingestion Eye contact	
	Acute t	oxicity ssified based on availa	ble i	nformation.	
<u>c</u>	Compo	nents:			
	Starch: Acute o	ral toxicity	:	LD50 (Rat): > 5,00	00 mg/kg
Þ	Acute d	ermal toxicity	:	LD50 (Rabbit): > 2	2,000 mg/kg
f	fenben	dazole:			
ļ	Acute o	ral toxicity	:	LD50 (Rat): > 10,0	000 mg/kg
				LD50 (Mouse): >	10,000 mg/kg
		prrosion/irritation ssified based on availa	blei	nformation.	



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0				
	ponents:			
	endazole:	_	Dabbit	
Spec Resu		:	Rabbit No skin irritation	
	ous eye damage/eye lassified based on ava			
Com	ponents:			
Starc	ch:			
Spec		:	Rabbit	
Resu	It	:	No eye irritation	
fenbe	endazole:			
Spec		:	Rabbit	
Resu	It	:	No eye irritation	
Resp Not c	lassified based on ava iratory sensitisation lassified based on ava ponents:			
Starc	ch:			
Test	Туре	:	Maximisation Tes	t
Expo	sure routes ies	:	Skin contact Guinea pig	
Resu	lt	:	negative	
	n cell mutagenicity			
	lassified based on ava	ailable	information.	
	ponents:			
Stard IIGeno	:h: otoxicity in vitro		Test Type: Bacter	rial reverse mutation assay (AMES)
Geno			Result: negative	
	endazole:			
Geno	otoxicity in vitro	:	Test Type: Bacter Result: negative	rial reverse mutation assay (AMES)
			Test Type: DNA F Result: negative	Repair



Version 8.0	Revision Date: 2024/09/28	SDS Number: 2726691-00016	Date of last issue: 2024/04/06 Date of first issue: 2018/04/20	
		Result: negativ Test Type: in v Test system: n	itro assay nouse lymphoma cells ration: Metabolic activation	
	nogenicity	able information		
	lassified based on avail conents:	able information.		
	endazole:			
Speci Applic Expos NOAE Resul	cation Route sure time EL	: Mouse : oral (feed) : 2 Years : 405 mg/kg boo : negative	ly weight	
Expos NOAE Resul	cation Route sure time EL	: Rat : Oral : 2 Years : 5 mg/kg body : negative : Lymph nodes,	-	
-	oductive toxicity ected of damaging fertil	ity. Suspected of da	naging the unborn child.	
<u>Com</u>	oonents:			
	endazole: is on fertility		ee-generation reproduction toxicity study	
		General Toxic	ute: oral (feed) ty - Parent: NOAEL: 15 mg/kg body weight L: 45 mg/kg body weight on fertility	
Effect ment	s on foetal develop-	Result: Embry	female	
		Species: Rabb Application Ro		
				_



rsion	Revision Date: 2024/09/28	SDS Number: 2726691-00016	Date of last issue: 2024/04/06 Date of first issue: 2018/04/20
II		Result: Fetotox	icity
		Test Type: Emb Species: Rabbi Application Rou	
			Toxicity: LOAEL: 63 mg/kg body weight
		Species: Rat	oryo-foetal development
			ite: Oral Toxicity: NOAEL: 120 mg/kg body weight cts on foetal development
Repro sessm	ductive toxicity - As- nent	fertility, based o	of adverse effects on sexual function and on animal experiments., Some evidence of on development, based on animal experi-

STOT - repeated exposure

Not classified based on available information.

Components:

fenbendazole:

Exposure routes Target Organs Assessment	: Ingestion	
Target Organs	: Liver, Stomach, Nervous system, Lymph nodes	
Assessment	: May cause damage to organs through prolonged or repeate	эd
	exposure.	

Repeated dose toxicity

Components:

Starch:

Species NOAEL	:	Rat
NOAEL	:	>= 2,000 mg/kg
Application Route	:	Skin contact
Exposure time	:	28 Days
Method	:	OECD Test Guideline 410
-		

fenbendazole:

mg/kg
eeks
ney, Liver
r

Species

: Rat



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	ation Route sure time	: > 2,500 : Oral : 30 Days : No sign	
Expos	L cation Route sure time t Organs	: Rat : 1,600 n : Oral : 90 Days : Central : Tremor	s nervous system
	EL	: Dog : 4 mg/kg : 8 mg/kg : 6 Month : Stomad]
<u>Comp</u>	assified based on ava ponents: pdozelo:	nable mornat	ion.
Comp fenbe ∭No as		fication	ion.
Comp fenbe No as Exper <u>Comp</u> fenbe	oonents: ndazole: piration toxicity classi ience with human e oonents: ndazole: ion	ication xposure : Sympto	oms: Rapid respiration, Salivation, anorexia, Diarrhoea
Comp fenbe No as Exper <u>Comp</u> fenbe	oonents: ndazole: piration toxicity classi fience with human e oonents: ndazole: ion	ication xposure : Sympto	
Comp fenbe No as Exper Comp fenbe Ingest 2. ECOLO	oonents: ndazole: piration toxicity classi fience with human e oonents: ndazole: ion	ication xposure : Sympto	
Comp fenbe No as Exper Comp fenbe Ingest 2. ECOLO Ecoto Comp	ponents: ndazole: piration toxicity classi rience with human e ponents: ndazole: cion DGICAL INFORMATI	ication xposure : Sympto	
Comp fenbe No as Exper Comp fenbe Ingest 2. ECOLO Ecoto Comp fenbe	ponents: ndazole: piration toxicity classi rience with human e ponents: ndazole: cion DGICAL INFORMATI pxicity ponents:	fication xposure : Sympto ON : LC50 (L	
Comp fenbe No as Exper Comp fenbe Ingest 2. ECOLO Ecoto Comp fenbe	ponents: ndazole: piration toxicity classi rience with human e ponents: ndazole: ion DGICAL INFORMATI exicity ponents: ndazole:	fication xposure : Sympto ON : LC50 (L Exposu er : EC50 (I Exposu	oms: Rapid respiration, Salivation, anorexia, Diarrhoea
Comp fenbe No as Exper Comp fenbe Ingest 2. ECOLO Ecoto Comp fenbe Toxici aquati	ponents: ndazole: piration toxicity classi rience with human er ponents: ndazole: tion DGICAL INFORMATI pxicity ponents: ndazole: ty to fish ty to daphnia and othe	ication xposure : Sympto ON : LC50 (L Exposu er : EC50 (I Exposu Method	oms: Rapid respiration, Salivation, anorexia, Diarrhoea _epomis macrochirus (Bluegill sunfish)): 0.009 mg/l irre time: 21 d Daphnia magna (Water flea)): 0.0088 mg/l irre time: 48 h



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ic tox	icity)		Method: OECD	Test Guideline 211
M-Fa toxici	ctor (Chronic aquatic ty)	:	10	
	stence and degradabi ata available	ility		
Bioa	ccumulative potential			
Com	ponents:			
Partit	endazole: ion coefficient: n- ol/water	:	log Pow: 3.32	
Mobi	lity in soil			
Com	ponents:			
Distri	endazole: bution among environ- al compartments	:	log Koc: 3.8 - 4 Method: FDA 3	
	rdous to the ozone lay pplicable	yer		
	r adverse effects ata available			
3. DISPO	SAL CONSIDERATIO	NS		
Disp	osal methods			
-	e from residues	:		cordance with local regulations.
Conta	aminated packaging	:	Do not dispose of waste into sewer. Empty containers should be taken to an approved was dling site for recycling or disposal. If not otherwise specified: Dispose of as unused produ	
14. TRAN	SPORT INFORMATION	N		
Inter	national Regulations			
	TDG umber er shipping name	:	UN 3077 ENVIRONMEN N.O.S.	TALLY HAZARDOUS SUBSTANCE, SOLID,

(fenbendazole)

: 9

: 9

: yes

Ī

Class

Labels

Packing group

Environmentally hazardous



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ΙΑΤΑ	DGR			
UN/IC		:	UN 3077	
Prope	er shipping name	:	Environmentally h (fenbendazole)	azardous substance, solid, n.o.s.
Class		:	9	
Packi	ng group	:	III	
Label	-	:	Miscellaneous	
Packi aircra	ng instruction (cargo ft)	:	956	
	ng instruction (passen- rcraft)	:	956	
	onmentally hazardous	:	yes	
IMDG	-Code			
UN nu	umber	:	UN 3077	
Prope	er shipping name	:	ENVIRONMENTA	LLY HAZARDOUS SUBSTANCE, SOLID,
·			N.O.S. (fenbendazole)	
Class		:	9	
	ng group	:	III	
Label	-	:	9	
EmS		:	F-A, S-F	
Marin	e pollutant	:	yes	

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

Not applicable for product as supplied.

National Regulations

Refer to section 15 for specific national regulation.

Special precautions for user

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

ERG Code : 171

15. REGULATORY INFORMATION

Related Regulations

Fire Service Law

Not applicable to dangerous materials / designated flammables.

Chemical Substance Control Law

Not applicable for Specified Chemical Substance, Monitoring Chemical Substance and Priority Assessment Chemical Substance.

Industrial Safety and Health Law

Harmful Substances Prohibited from Manufacture Not applicable





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Not a	pplicable	quired Permission for From Impairment of He	
Circu on Ex		rmation on Chemicals aving Mutagenicity	having Mutagenicity - Annex 2: Informatio
on No		rmation on Chemicals having Mutagenicity	having Mutagenicity - Annex 1: Information
	tances Subject to b pplicable	e Notified Names	
	tances Subject to b pplicable	e Indicated Names	
	and Eye Damage S e pplicable	ubstances for PPE Re	quirements (ISHL MO Art. 594-2)
tions	-	es (Article 577-2 of the	Occupational Health and Safety Regula-
	nance on Prevention pplicable	n of Hazards Due to Sp	pecified Chemical Substances
	nance on Prevention pplicable	n of Lead Poisoning	
	nance on Prevention pplicable	n of Tetraalkyl Lead Po	bisoning
	nance on Prevention pplicable	n of Organic Solvent P	Poisoning
Subs	r cement Order of th tances) pplicable	e Industrial Safety and	d Health Law - Attached table 1 (Dangerous
	onous and Deleteric pplicable	ous Substances Contro	ol Law
viron			of Specific Chemical Substances in the Er the Management Thereof
-	Pressure Gas Safet	ty Act	
-	pplicable		



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Vessel Safety Law

Miscellaneous dangerous substances and articles (Article 2 and 3 of rules on shipping and storage of dangerous goods and its Attached Table 1)

Aviation Law

Miscellaneous dangerous substances and articles (Article 194 of The Enforcement Rules of Aviation Law and its Attached Table 1)

Marine Pollution and Sea Disaster Prevention etc Law

Bulk transportation : Not classified as noxious liquid substance

Pack transportation

: Classified as marine pollutant

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:

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

16. OTHER INFORMATION

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						
ACGIH	:	USA. ACGIH Threshold Limit Values (TLV)				
ACGIH / TWA	:	8-hour, time-weighted average				

AIIC - Australian Inventory of Industrial Chemicals; ANTT - National Agency for Transport by Land of Brazil; ASTM - American Society for the Testing of Materials; bw - Body weight; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with



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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 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.

JP / EN