

Versi 4.0	ion	Revision Date: 06.04.2024		S Number: 31973-00014	Date of last issue: 30.09.2023 Date of first issue: 18.05.2017
Sect	ion 1: le	dentification			
	Produc	t identifier	:	Betamethasone ((0.05%) Ointment Formulation
	Recom	mended use of the ch	nem	ical and restriction	ons on use
		mended use ions on use	:	Pharmaceutical Not applicable	
	Manufa	cturer or supplier's d	letai	ls	
	Compa	ny	:	Organon & Co.	
	Address	5	:		t, 33nd floor Jersey, U.S.A 07302
	Telepho	one	:	+1-551-430-6000)
	Emerge	ency telephone number	· :	+1-215-631-6999	
	E-mail a	address	:	EHSSTEWARD®	⊉organon.com

Section 2: Hazard identification

Reproductive toxicity	:	Category 1B
Specific target organ toxicity - repeated exposure	:	Category 1 (Pituitary gland, Immune system, muscle, thymus gland, Blood, Adrenal gland)
Long-term (chronic) aquatic hazard	:	Category 1

GHS Label elements, including precautionary statements

Hazard pictograms	:	
Signal word	:	Danger
Hazard statements	:	H360D May damage the unborn child. H372 Causes damage to organs (Pituitary gland, Immune sys- tem, muscle, thymus gland, Blood, Adrenal gland) through pro- longed or repeated exposure. H410 Very toxic to aquatic life with long lasting effects.
Precautionary statements	:	Prevention:



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		P202 Do not har and understood. P260 Do not bre P264 Wash skin P270 Do not eat P273 Avoid relea	ecial instructions before use. Indle until all safety precautions have been read eathe dust/ fume/ gas/ mist/ vapours/ spray. thoroughly after handling. c, drink or smoke when using this product. ase to the environment. ective gloves/ protective clothing/ eye protec-			
		tion/ face protection/ hearing protection. Response: P308 + P313 IF exposed or concerned: Get medical advice/ attention. P391 Collect spillage. Storage: P405 Store locked up.				
		f contents/ container to an approved waste				

Other hazards which do not result in classification

None known.

Section 3: Composition/information on ingredients

Substance / Mixture : Mixture

Components

Chemical name	CAS-No.	Concentration (% w/w)
Petrolatum	8009-03-8	>= 70 -< 90
Propylene glycol monostearate	1323-39-3	>= 1 -< 10
betamethasone	378-44-9	>= 0.025 -< 0.1

Section 4: First-aid measures

Description of necessary 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.				
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.				



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lf sw	allowed	:	If swallowed, DO Get medical atten	ntion if irritation develops and persists. NOT induce vomiting. ntion. oughly with water.					
Mos	Most important symptoms and effects, both acute and delayed								
Risks Protection of first-aiders		:	May damage the unborn child. Causes damage to organs through prolonged or repeated exposure. 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).						
Indie	cation of any immediate	me	edical attention an	nd special treatment needed					
	tment	:		ically and supportively.					
Section	5: Fire-fighting measure	s							
Coolion		Ū							
Extin	guishing media								
Suita	able extinguishing media	:	Alcohol-resistant foam Carbon dioxide (CO2) Dry chemical						
Unsı med	uitable extinguishing ia	:	None known.						
Spe	cial hazards arising from	n th	e substance or m	lixture					
Spec fight	cific hazards during fire- ing	:		n explosive mixtures with air. bustion products may be a hazard to health.					
Haza ucts			Carbon oxides						
Sno	cial protective actions for	or f	ira-fighters						
Spec for fi	cial protective actions in cial protective equipment refighters cific extinguishing meth-	:	In the event of fire Use personal pro Use extinguishing cumstances and Use water spray t	e, wear self-contained breathing apparatus. tective equipment. 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 me	eas	ures						
	Personal precautions, protective equipment and emergency procedures Personal precautions : Use personal protective equipment. Follow safe handling advice (see section 7) and personal protective equipment recommendations (see section 8).								
	Environmental precautions : Avoid release to the environment.								



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		Retain and disp	leakage or spillage if safe to do so. bose of contaminated wash water. s should be advised if significant spillages ained.
Methods	and materials for cor	ntainment and cleanir	ng up
Methods for cleaning up :		tainer for dispos Local or nationa posal of this ma employed in the mine which reg Sections 13 and	acuum up spillage and collect in suitable con- sal. al regulations may apply to releases and dis- aterial, as well as those materials and items e cleanup of releases. You will need to deter- ulations are applicable. d 15 of this SDS provide information regarding national requirements.

Section 7: Handling and storage

Precautions for safe 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 get on skin or clothing. Do not breathe dust, fume, gas, mist, vapours or spray. Do not swallow. Avoid contact with eyes. Wash skin thoroughly after handling. Handle in accordance with good industrial hygiene and safet 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 th environment.		
Hygiene measures	:	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 contaminated 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.		
Conditions for safe storage,	ind	cluding any incompatibilities		
Conditions for safe storage	:	Keep in properly labelled containers. Store locked up. Keep tightly closed. Store in accordance with the particular national regulations.		
Materials to avoid	:	Do not store with the following product types:		



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Strong oxidizing agents

Section 8: Exposure controls/personal protection

Control parameters

Occupational Exposure Limits

Components	CAS-No.	Value type (Form of exposure)	Control parame- ters / Permissible concentration	Basis
Petrolatum	8009-03-8	PEL (long term) (Mist)	5 mg/m3	SG OEL
		PEL (short term) (Mist)	10 mg/m3	SG OEL
		TWA (Inhal- able particu- late matter)	5 mg/m3	ACGIH
Propylene glycol monostearate	1323-39-3	PEL (long term)	10 mg/m3	SG OEL
		TWA (Inhal- able particu- late matter)	10 mg/m3	ACGIH
		TWA (Res- pirable par- ticulate mat- ter)	3 mg/m3	ACGIH
betamethasone	378-44-9	TŴA	1 µg/m3 (OEB 4)	Internal
	Further information	ation: Skin		
		Wipe limit	10 µg/100 cm ²	Internal

Appropriate engineering Containment technologies suitable for controlling compounds control measures are required to control at source and to prevent migration of the compound to uncontrolled areas (e.g., vacuum conveying from a closed system, packout head with inflatable seal from stationary container, ventilated enclosure, etc.). All engineering controls should be implemented by facility design and operated in accordance with GMP principles to protect products, workers, and the environment. Essentially no open handling permitted. Use closed processing systems or containment technologies. Individual protection measures, such as personal protective equipment (PPE) Eye/face protection ÷ Wear safety glasses with side shields or goggles. If the work environment or activity involves dusty conditions,



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	spiratory protection Filter type nd protection	:	task being perform posable suits) to a Use appropriate of contaminated clot If adequate local of sure assessment	arments should be used based upon the ned (e.g., sleevelets, apron, gauntlets, dis- avoid exposed skin surfaces. legowning techniques to remove potentially thing. exhaust ventilation is not available or expo- demonstrates exposures outside the rec- lines, use respiratory protection.
	Material	:	Chemical-resistar	nt gloves
	Remarks	:	Consider double	gloving.
Section	9: Physical and chemica	l pr	operties	
Ар	pearance	:	ointment	
Co	lour	:	white to off-white	
Od	our	:	No data available	e
Od	our Threshold	:	No data available	9
рH		:	No data available	e
Me	Iting point/freezing point	:	No data available	e
	ial boiling point and boiling nge	:	No data available	e
Fla	ish point	:	> 93.3 °C	
Ev	aporation rate	:	Not applicable	
Fla	mmability (solid, gas)	:	Not classified as	a flammability hazard
Fla	mmability (liquids)	:	Not applicable	
	per explosion limit / Upper mmability limit	:	No data available	e
	wer explosion limit / Lower mmability limit	:	No data available	e
Va	pour pressure	:	No data available	9
Re	lative vapour density	:	Not applicable	
Re	lative density	:	No data available	9



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Density			:	No data available	9			
ŝ	Solubili Wat	ty(ies) er solubility	:	: No data available				
-		n coefficient: n-	:	: Not applicable				
	octanol/water Auto-ignition temperature		:	No data available)			
Decomposition temperature		:	No data available					
N	Viscosity Viscosity, kinematic		:	Not applicable				
I	Explosi	ve properties	:	Not explosive				
(Oxidizir	ng properties	:	The substance of	r mixture is not classified as oxidizing.			
Particle characteristics Particle size		:	Not applicable					

Section 10: Stability and reactivity

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

Section 11: Toxicological information

Information on likely routes of	:	Skin contact
exposure		Ingestion
		Eye contact

Acute toxicity

Not classified based on available information.

Components:

Petrolatum:

Acute oral toxicity Acute dermal toxicity	: LD50 (Rat): > 5,000 mg/kg Method: OECD Test Guideline 401 Remarks: Based on data from similar materials
Acute dermal toxicity	: LD50 (Rat): > 2,000 mg/kg



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		Assessment: Th toxicity	Test Guideline 402 e substance or mixture has no acute derma d on data from similar materials
Prop	ylene glycol monost	arate:	
	e oral toxicity	: LD50 (Mouse): :	> 5,000 mg/kg
betar	nethasone:		
Acute	e oral toxicity	: LD50 (Rat): > 5,	000 mg/kg
		LD50 (Mouse): >	> 4,500 mg/kg
Acute	inhalation toxicity	: LC50 (Rat): 0.4 Exposure time: 4	
	corrosion/irritation lassified based on ava	able information	
	ponents:		
-	latum:		
Speci Metho Resu Rema	ies od It	 Rabbit OECD Test Guid No skin irritation Based on data f 	
Prop	ylene glycol monost	arate:	
Resu		: No skin irritation	
hotor	nethasone:		
Speci Resu	ies	: Rabbit : Mild skin irritatio	n
Serio	ous eye damage/eye i	ritation	
	lassified based on ava		
Com	ponents:		
Petro	olatum:		
Speci		: Rabbit	
Resu Metho		: No eye irritation : OECD Test Guid	deline 405
Rema			rom similar materials
betar	nethasone:		
		: Rabbit	
Speci Resu		: No eye irritation	



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Respiratory or skin sensitisation

Skin sensitisation

Not classified based on available information.

Respiratory sensitisation

Not classified based on available information.

Components:

Petrolatum:

 Buehler Test Skin contact Guinea pig negative Based on data from similar materials
: Based on data from similar materials

betamethasone:

Exposure routes Species Result	:	Dermal
Species	:	Guinea pig
Result	:	Weak sensitizer

Germ cell mutagenicity

Not classified based on available information.

Components:

Petrolatum:

Genotoxicity in vitro	Test Type: Chromosome aberration test in vitro Result: negative Remarks: Based on data from similar materials	
Genotoxicity in vivo	: Test Type: Mammalian erythrocyte micronucleus test (in vivo cytogenetic assay) Species: Mouse Application Route: Intraperitoneal injection Method: OECD Test Guideline 474 Result: negative Remarks: Based on data from similar materials	
betamethasone:		
Genotoxicity in vitro	: Test Type: Bacterial reverse mutation assay (AMES) Result: negative	
	Test Type: In vitro mammalian cell gene mutation test Result: negative	
	Test Type: Chromosome aberration test in vitro Result: positive	

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ersion 0	Revision Date: 06.04.2024		0S Number: 81973-00014	Date of last issue: 30.09.2023 Date of first issue: 18.05.2017
Genot	toxicity in vivo	:	Test Type: Mam cytogenetic assa Species: Mouse Application Rout Result: equivoca	e: Oral
	cell mutagenicity -	:	Weight of evider cell mutagen.	nce does not support classification as a germ
Carci	nogenicity			
	assified based on avai	ilable	information.	
<u>Comp</u>	oonents:			
Petro	latum:			
	ation Route	:	Rat Ingestion 2 Years negative	
May d	oductive toxicity lamage the unborn chi	ild.		
	oonents:			
	latum: s on fertility	:	test Species: Rat Application Rout Result: negative	
Effect: ment	s on foetal develop-	:	Species: Rat Application Rout Result: negative	
betam	nethasone:			
Effects ment	s on foetal develop-	:	Developmental Result: Fetotoxic	te: Intramuscular Foxicity: LOAEL: 0.05 mg/kg body weight city, Malformations were observed.
			Developmental	e: Subcutaneous Foxicity: LOAEL: 0.42 mg/kg body weight ations were observed.
11				



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		De	velopmental T	e: Intramuscular oxicity: LOAEL: 1 mg/kg body weight tions were observed.
Repro sessr	oductive toxicity - As- ment		ear evidence o imal experimer	f adverse effects on development, based on nts.
	T - single exposure classified based on avail	able info	rmation.	
STO	T - repeated exposure			
	es damage to organs (F gland) through prolong			system, muscle, thymus gland, Blood, Ad- e.
Com	ponents:			
betar	methasone:			
Targe	et Organs		uitary gland, Ir renal gland	nmune system, muscle, thymus gland, Blood,
Asse	ssment	: Ca		to organs through prolonged or repeated
Repe	eated dose toxicity			
-	ponents:			
Petro	platum:			
Spec	ies	: Ra	ıt	
NOA)00 mg/kg	
	cation Route		gestion "	
Expo	sure time	: 2 y	1	
betar	methasone:			
Spec			lbbit	
LOAE	≟L cation Route)5 % in contact	
	sure time		- 30 d	
	et Organs			nmune system, muscle
Spec	ies	: Ra	ıt	
LOAE)5 %	
	cation Route		in contact	
	sure time et Organs		Veeks mus gland	
Spec	ies	: Mo	ouse	
LOAE			%	
Appli	cation Route	: Sk	in contact	
	sure time		Veeks	
Targe	et Organs	: thy	mus gland	



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Species LOAEL Application Route Exposure time Target Organs	: Dog : 0.05 mg/kg : Oral : 28 d
Target Organs	: Blood, thymus gland, Adrenal gland

Aspiration toxicity

Not classified based on available information.

Experience with human exposure

Components:

betamethasone:

Inhalation	:	Target Organs: Adrenal gland
Skin contact	:	Symptoms: Redness, pruritis, Irritation

Section 12: Ecological information

Toxicity

Components:

Petrolatum:

Fellolatum.		
Toxicity to fish	:	LL50 (Pimephales promelas (fathead minnow)): > 100 mg/l Exposure time: 96 h Test substance: Water Accommodated Fraction Method: OECD Test Guideline 203 Remarks: Based on data from similar materials
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): > 10,000 mg/l Exposure time: 48 h Test substance: Water Accommodated Fraction Remarks: Based on data from similar materials
Toxicity to algae/aquatic plants	:	NOEL (Pseudokirchneriella subcapitata (green algae)): >= 100 mg/l Exposure time: 72 h Test substance: Water Accommodated Fraction Method: OECD Test Guideline 201 Remarks: Based on data from similar materials
Toxicity to daphnia and other aquatic invertebrates (Chron- ic toxicity)	:	NOEC (Daphnia magna (Water flea)): 10 mg/l Exposure time: 21 d Test substance: Water Accommodated Fraction Remarks: Based on data from similar materials
betamethasone: Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Americamysis): > 50 mg/l Exposure time: 96 h



sion	Revision Date: 06.04.2024	-	S Number: 81973-00014	Date of last issue: 30.09.2023 Date of first issue: 18.05.2017
Toxicity to algae/aquatic plants		:	mg/l Exposure time: 72 Method: OECD T	
			mg/l Exposure time: 72 Method: OECD T	
Toxic icity)	ity to fish (Chronic tox-	:	NOEC (Pimephal Exposure time: 32 Method: OECD T	
			NOEC (Oryzias la Exposure time: 2 ⁻⁷ Method: OECD T	
	ity to daphnia and other ic invertebrates (Chron- icity)	:	NOEC (Daphnia r Exposure time: 2 Method: OECD T	
M-Fa toxicit	ctor (Chronic aquatic y)	:	1,000	
Persi	stence and degradabili	ity		
<u>Com</u>	oonents:			
	latum: gradability	:		31 %
Bioad	cumulative potential			
Com	oonents:			
Partiti	nethasone: ion coefficient: n- ol/water	:	log Pow: 2.11	
	l ity in soil ata available			
	r adverse effects ata available			



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Section 13: Disposal considerations

Disposal methods		
Waste from residues	:	Do not dispose of waste into sewer. Dispose of in accordance with local regulations.
Contaminated packaging	:	Empty containers should be taken to an approved waste han- dling site for recycling or disposal. If not otherwise specified: Dispose of as unused product.

Section 14: Transport information

International Regulations

UNRTDG		
UN number	:	UN 3077
UN proper shipping name	:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (betamethasone)
Transport hazard class(es)		9
Packing group	÷	
Labels	÷	9
Environmental hazards	:	yes
IATA-DGR		
UN/ID No.	:	UN 3077
UN proper shipping name	:	Environmentally hazardous substance, solid, n.o.s. (betamethasone)
Transport hazard class(es)	:	9
Packing group	:	III
Labels	:	Miscellaneous
Packing instruction (cargo aircraft)	:	956
Packing instruction (passen- ger aircraft)	:	956
Environmentally hazardous	:	yes
IMDG-Code		
UN number	:	UN 3077
Proper shipping name	:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.
		(betamethasone)
Transport hazard class(es)	:	9
Packing group	:	III
Labels	:	9
EmS Code	:	F-A, S-F
Marine pollutant	:	yes

Transport in bulk according to IMO instruments

Not applicable for product as supplied.

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



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Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

Section 15: Regulatory information

Safety, health and environmental regulations specific for the product in question

Workplace Safety and Health Act and Workplace Safety and Health (General Provisions) Regulations: This product is subjected to the SDS, labelling, PEL and other requirements in the Act/Regulations.

Environmental Protection and Management Act and Environmental Protection and Management (Hazard- ous Substances) Regulations	:	Not applicable
Fire Safety (Petroleum and Flammable Materials)	:	Not applicable

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

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

Section 16: Other information

Regulations

Revision Date	:	06.04.2024
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/

Items where changes have been made to the previous version are highlighted in the body of this document by two vertical lines.

Date format	:	dd.mm.yyyy			
Full text of other abbreviations					
ACGIH SG OEL	:	USA. ACGIH Threshold Limit Values (TLV) Singapore. Workplace Safety and Health (General Provisions) Regulations - First Schedule Permissible Exposure Limits of Toxic Substances.			
(0)		8-hour, time-weighted average Permissible Exposure Level (PEL) Long Term Permissible Exposure Level (PEL) Short Term			

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



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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 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.

SG / EN