

Signal word

Hazard statements

Precautionary statements



Furosemide Solid Formulation

Vers 3.1	sion	Revision Date: 2023/09/30		S Number: 623-00016	Date of last issue: 2023/04/04 Date of first issue: 2016/05/03
1. P	RODUC	T AND COMPANY IDE	ΞΝΤΙ	FICATION	
	Product	t name	:	Furosemide Solic	Formulation
	Manufa	acturer or supplier's d	letai	ls	
	Compa	ny	:	MSD	
	Address	S	:	126 E. Lincoln Av Rahway, New Je	venue rsey U.S.A. 07065
	Telepho	one	:	908-740-4000	
	Emerge	ency telephone number	:	1-908-423-6000	
	E-mail a	address	:	EHSDATASTEW	ARD@msd.com
	Recom	mended use of the ch	nemi	cal and restrictio	ons on use
		mended use ions on use	:	Veterinary produce Not applicable	ct
2. H	AZARD	S IDENTIFICATION			
	GHS C	lassification			
		c target organ toxicity - d exposure	:	Category 1 (Kidn	ey, Liver)
	GHS la	bel elements			
	Hazard	pictograms	:		

: H372 Causes damage to organs (Kidney, Liver) through prolonged or repeated exposure.

Prevention:
 P260 Do not breathe dust.
 P264 Wash skin thoroughly after handling.
 P270 Do not eat, drink or smoke when using this product.
 Response:
 P314 Get medical advice/ attention if you feel unwell.

Disposal:

: Danger



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

Other hazards which do not result in classification

Dust contact with the eyes can lead to mechanical irritation. Contact with dust can cause mechanical irritation or drying of the skin. May form explosive dust-air mixture during processing, handling or other means.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Components

•		
Chemical name	CAS-No.	Concentration (% w/w)
Starch	9005-25-8	>= 30 -< 60
Furosemide	54-31-9	>= 10 -< 30
Cellulose	9004-34-6	< 10

4. 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.
In case of skin contact	:	Get medical attention if symptoms occur. In case of contact, immediately flush skin with soap and plenty of water. Get medical attention if symptoms occur.
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. Get medical attention if symptoms occur. Rinse mouth thoroughly with water.
Most important symptoms and effects, both acute and delayed	:	Causes damage to organs through prolonged or repeated exposure. Contact with dust can cause mechanical irritation or drying of the skin.
Protection of first-aiders	:	Dust contact with the eyes can lead to mechanical irritation. 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.

5. FIREFIGHTING MEASURES

Suitable extinguishing media :

Water spray Alcohol-resistant foam Carbon dioxide (CO2) Dry chemical

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Unsuit media	able extinguishing	:	None known.	
Specif fighting	ic hazards during fire- g	:	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.
Hazaro ucts	dous combustion prod-	:	Nitrogen oxides (Carbon oxides Sulphur oxides Chlorine compou	
Specif ods	ic extinguishing meth-	:	cumstances and Use water spray f Remove undama so.	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
	al protective equipment fighters	:		e, wear self-contained breathing apparatus. tective equipment.
6. ACCIDE	NTAL RELEASE MEAS	SUF	RES	
tive eq	nal precautions, protec- uipment and emer- procedures	:	Follow safe hand	tective equipment. ing advice (see section 7) and personal pro- t recommendations (see section 8).
Enviro	nmental precautions	:	Retain and dispos	akage or spillage if safe to do so. se of contaminated wash water. should be advised if significant spillages
	ds and materials for nment and cleaning up	:	tainer for disposa Avoid dispersal o with compressed Dust deposits sho es, as these may leased into the at Local or national posal of this mate employed in the o mine which regula	f dust in the air (i.e., clearing dust surfaces air). buld not be allowed to accumulate on surfac- form an explosive mixture if they are re- mosphere in sufficient concentration. regulations may apply to releases and dis- trial, as well as those materials and items cleanup of releases. You will need to deter- ations are applicable. I5 of this SDS provide information regarding

Technical measures	:	Static electricity may accumulate and ignite suspended dust
		causing an explosion.
		Provide adequate precautions, such as electrical grounding



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		otal ventilation on safe handling	::	Wash skin thorou Handle in accorda practice, based of sessment Minimize dust ger Keep container cl Keep away from h Take precautiona Do not eat, drink	equate ventilation. ust.
	Conditions for safe storage : Keep in Store in S			Keep in properly I Store in accordan	abelled containers. ce with the particular national regulations. the following product types: agents

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Components	CAS-No.	Value type	Control parame-	Basis	
		(Form of	ters / Permissible		
		exposure)	concentration		
Starch	9005-25-8	NAB	10 mg/m3	ID OEL	
			ied as carcinogenic t		
	enough data to	classify these r	naterials as carcinog	enic to hu-	
	mans or anima	lls			
		TWA	10 mg/m3	ACGIH	
Furosemide	54-31-9	TWA	200 µg/m3	Internal	
		TWA	OEB 2 (>=100 -	Internal	
			1000 ug/m3)		
Cellulose	9004-34-6	NAB	10 mg/m3	ID OEL	
		TWA	10 mg/m3	ACGIH	
	-		•		
Engineering measures Use feasible engineering controls to minimize exposure to					

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 equipmen	t
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 :	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. 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.	Version 3.1	Revision Date: 2023/09/30	SDS Number: 645623-00016	Date of last issue: 2023/04/04 Date of first issue: 2016/05/03				
Material: Chemical-resistant glovesEye 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 Hygiene measures: Work uniform or laboratory coat.If exposure to chemical is likely during typical use, provide eye flushing systems and safety showers close to the work- ing 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								
 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 Hygiene measures Work uniform or laboratory coat. 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 			: Chemical-resist	tant gloves				
 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 	Eye protection		If the work envi mists or aeroso Wear a faceshi potential for dire	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				
			: If exposure to c eye flushing sys ing place. When using do Wash contamin The effective op engineering con appropriate deg industrial hygie	hemical is likely during typical use, provide stems and safety showers close to the work- not eat, drink or smoke. hated clothing before re-use. beration of a facility should include review of ntrols, proper personal protective equipment, gowning and decontamination procedures, ne monitoring, medical surveillance and the				

Appearance powder 1 Colour yellow 2 Odour No data available • Odour Threshold No data available 2 pН No data available · Melting point/freezing point No data available 2 Initial boiling point and boiling No data available 1 range Flash point Not applicable 1 Evaporation rate No data available 1 Flammability (solid, gas) : May form explosive dust-air mixture during processing, handling or other means. Flammability (liquids) No data available 2 Upper explosion limit / Upper No data available 1 flammability limit Lower explosion limit / Lower : No data available flammability limit

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V	apour	pressure	:	No data available	9
R	Relative vapour density		:	No data available	9
R	Relative density		:	No data available	9
D	ensity	,	:	No data available	9
S		ty(ies) er solubility	:	No data available	9
		n coefficient: n- /water	:	No data available	9
-		nition temperature	:	No data available	9
D	ecom	position temperature	:	No data available	9
Vi	iscosi Visc	ty osity, kinematic	:	No data available	9
E	xplosi	ve properties	:	Not explosive	
0	xidizir	ng properties	:	The substance o	r mixture is not classified as oxidizing.
Μ	1olecu	lar weight	:	Not applicable	
Pa	article	size	:	No data available	9

10. STABILITY AND REACTIVITY

Reactivity Chemical stability Possibility of hazardous reac- tions	:	Not classified as a reactivity hazard. Stable under normal conditions. May form explosive dust-air mixture during processing, han- dling or other means. Can react with strong oxidizing agents.
Conditions to avoid	:	Heat, flames and sparks. Avoid dust formation.
Incompatible materials Hazardous decomposition products	:	Oxidizing agents No hazardous decomposition products are known.
producto		

11. TOXICOLOGICAL INFORMATION

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



ersion 1	Revision Date: 2023/09/30		9S Number: 5623-00016	Date of last issue: 2023/04/04 Date of first issue: 2016/05/03
	t e toxicity classified based on availa	hla	information	
	ponents:			
Star				
Acute	e oral toxicity	:	LD50 (Rat): > 5,00	00 mg/kg
Acute	e dermal toxicity	:	LD50 (Rabbit): > 2	2,000 mg/kg
Furo	semide:			
Acute	e oral toxicity	:	LD50 (Rat): 2,600	mg/kg
			LD50 (Dog): 2,000	0 mg/kg
			LD50 (Rabbit): 80	0 mg/kg
	e toxicity (other routes of inistration)	:	LD0 (Humans): 6 Application Route	
			LD50 (Rat): 800 n Application Route	
Cellu	ulose:			
Acute	e oral toxicity	:	LD50 (Rat): > 5,00	00 mg/kg
Acute	e inhalation toxicity	:	LC50 (Rat): > 5.8	
			Exposure time: 4 Test atmosphere:	
Acute	e dermal toxicity	:	LD50 (Rabbit): > 2	2,000 mg/kg
	corrosion/irritation			
	classified based on availa			
	ous eye damage/eye irri classified based on availa			
<u>Com</u>	ponents:			
Stare	ch:			
Spec Resu		:	Rabbit No eye irritation	
		atio	-	
-	piratory or skin sensitis	auo	11	
-	sensitisation classified based on availa	ble	information.	
Resp	piratory sensitisation			
Not o	classified based on availa	ble	information.	



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Com	ponents:		
Starc	ch:		
Test		: Maximisation	
Expo Spec	sure routes	: Skin contact : Guinea pig	
Resu		: negative	
	n cell mutagenicity		
	lassified based on ava	ailable information.	
	ponents:		
Stard Geno	:n: ptoxicity in vitro	: Test Type: B Result: nega	Bacterial reverse mutation assay (AMES)
Furo	semide:		
Geno	otoxicity in vitro	: Test Type: B Result: nega	Bacterial reverse mutation assay (AMES) tive
			n vitro mammalian cell gene mutation test : mouse lymphoma cells ive
		thesis in mar	DNA damage and repair, unscheduled DNA syn- mmalian cells (in vitro) : mammalian liver cells tive
			Chromosome aberration test in vitro Chinese hamster ovary cells ive
		malian cells	n vitro sister chromatid exchange assay in mam : Chinese hamster cells ttive
Geno	otoxicity in vivo	cytogenetic a Species: Mo	use Route: Ingestion
		cytogenetic t Species: Chi	Autagenicity (in vivo mammalian bone-marrow test, chromosomal analysis) inese hamster Route: Ingestion



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Cellu	lose:				
Geno	toxicity in vitro	: Test Type: Bac Result: negativ	terial reverse mutation assay (AMES) e		
		Test Type: In v Result: negativ	tro mammalian cell gene mutation test e		
Geno	toxicity in vivo	cytogenetic ass Species: Mouse Application Rot	Test Type: Mammalian erythrocyte micronucleus test (in vivo cytogenetic assay) Species: Mouse Application Route: Ingestion Result: negative		
	nogenicity lassified based on av	ailable information.			
<u>Comp</u>	oonents:				
Furos	semide:				
	cation Route sure time L	: Rat : Ingestion : 104 weeks : 16 mg/kg body : equivocal	weight		
	cation Route sure time EL	: Mouse : Ingestion : 2 Years : 91 mg/kg body : positive	weight		
Cellu	lose:				
Speci		: Rat			
	cation Route sure time	: Ingestion : 72 weeks			
Resul		: negative			
Repro	oductive toxicity				
	lassified based on av ponents:	ailable information.			
-					
	semide: is on fertility	Species: Rat Application Rou General Toxicit	e-generation reproduction toxicity study ute: Ingestion y - Parent: NOAEL: 90 mg/kg body weight cts on reproduction parameters		
		Test Type: One Species: Mous	e-generation reproduction toxicity study		



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		General Toxi	coute: Ingestion city - Parent: NOAEL: 200 mg/kg body weight
Effect ment	ts on foetal develop-	: Test Type: For Species: Rat Application R General Toxi Development	fects on reproduction parameters ertility/early embryonic development coute: Ingestion city Maternal: LOAEL: 50 mg/kg body weight tal Toxicity: NOAEL: 300 mg/kg body weight mbryotoxic effects, No teratogenic effects
		Species: Mon Application R General Toxi	ertility/early embryonic development use coute: Ingestion city Maternal: LOAEL: 25 mg/kg body weight rnal toxicity observed., Fetal effects
		Species: Rat Application R General Toxi Developmen	ertility/early embryonic development obit coute: Ingestion city Maternal: LOAEL: <= 12 mg/kg body weight tal Toxicity: LOAEL: 12.5 mg/kg body weight rnal toxicity observed., Reduced number of viable
		Species: Rat Application R General Toxi	ertility/early embryonic development obit coute: Ingestion city Maternal: LOAEL: 15 mg/kg body weight rnal toxicity observed., No effects on foetal de-
Cellu	lose:		
	ts on fertility	Species: Rat	Route: Ingestion
Effect ment	ts on foetal develop-	Species: Rat	Route: Ingestion

STOT - single exposure

Not classified based on available information.

STOT - repeated exposure

Causes damage to organs (Kidney, Liver) through prolonged or repeated exposure.



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Furos Expos Targe	oonents: semide: sure routes et Organs ssment		duce significant health effects in animals at con- 10 mg/kg bw or less.
Repe	ated dose toxicity		
Com	oonents:		
	es EL cation Route sure time	: Rat : >= 2,000 mg/k : Skin contact : 28 Days : OECD Test G	•
Furos	semide:		
Expos	EL EL sution Route sure time et Organs otoms	: Dog : 4 mg/kg : 8 mg/kg : Ingestion : 12 Months : Kidney : Blood disorde : Significant tox	rs icity observed in testing
Cellu	lose:		
		: Rat : >= 9,000 mg/k : Ingestion : 90 Days	ζġ
Aspir	ation toxicity		
Not c	lassified based on ava	ailable information.	
Expe	rience with human e	xposure	
<u>Com</u>	oonents:		
Inhala Skin o	contact contact	: Remarks: May : Remarks: May : Symptoms: Ki ance, dry mou	/ be harmful if inhaled. / irritate skin. / cause eye irritation. dney disorders, Headache, electrolyte imbal- ith, hearing loss, Irregular cardiac activity, Gas- sturbance, hypotension





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12. ECOL	OGICAL INFORMATI	ON	
Ecot	oxicity		
<u>Com</u>	ponents:		
	semide: bity to fish	: LC50 : 500 Exposure tir	
	Ilose: ity to fish	Exposure tir	as latipes (Japanese medaka)): > 100 mg/l ne: 48 h ased on data from similar materials
Pers	istence and degradal	oility	
<u>Com</u>	ponents:		
	ilose: egradability	: Result: Rea	dily biodegradable.
Bioa	ccumulative potentia	I	
<u>Com</u>	ponents:		
Partit	semide: tion coefficient: n- nol/water	: log Pow: 2.0)3
	i lity in soil ata available		
	r adverse effects ata available		
13. DISPO	DSAL CONSIDERATION	ONS	
Disp	osal methods		
-	e from residues		ose of waste into sewer.
Conta	aminated packaging	: Empty conta dling site for	n accordance with local regulations. ainers should be taken to an approved waste han- recycling or disposal. vise specified: Dispose of as unused product.

14. TRANSPORT INFORMATION

International Regulations

UNRTDG



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UN num		:	Not applicable	
•	hipping name	:	Not applicable	
Class		:	Not applicable	
Subsidia		:	Not applicable	
Packing	group	:	Not applicable	
Labels		:	Not applicable	
IATA-DO	R			
UN/ID No		:	Not applicable	
	hipping name	:	Not applicable	
Class		:	Not applicable	
Subsidia		:	Not applicable	
Packing	group	÷	Not applicable	
Labels	instruction (cargo	÷	Not applicable Not applicable	
aircraft)	instruction (cargo	·	Not applicable	
	instruction (passen-		Not applicable	
ger aircra		•		
IMDG-Co	,			
UN num			Not applicable	
	hipping name	÷	Not applicable	
Class		÷	Not applicable	
Subsidia	ry risk	:	Not applicable	
Packing	group	:	Not applicable	
Labels		:	Not applicable	
EmS Co		:	Not applicable	
Marine p	ollutant	:	Not applicable	
Transpo	rt in bulk according	g to	Annex II of MARF	POL 73/78 and the IBC Code
Not appli	cable for product as	sup	plied.	
Special	precautions for use	er		
Not appli				

Not applicable

15. REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for the substance or mixture

Minister of Industry Regulation No. 23/M-IND/PER/4/2013 concerning the Revision of Minister of Industry Regulation No. 87/M-IND/PER/9/2009 concerning Globally Harmonized System of Classification and Labelling of Chemicals.

Regulation of the Minister of Health No. 472 of 1996 on the Safeguarding of Substances Hazardous to Health

Hazardous substances that must be registered : Not applicable

Government Regulation No. 74 of 2001 on the Management of Hazardous and Toxic Substances

Hazardous substances approved for use	:	Not applicable
Prohibited substances	:	Not applicable



ersion .1	Revision Date: 2023/09/30		0S Number: 5623-00016	Date of last issue: 2023/04/04 Date of first issue: 2016/05/03
Restr	icted substances			: Not applicable
Regu Mater		y of Tr	ade No. 7 of 20	22 on Distribution and Control of Hazardou
	of hazardous materia ol, Annex I	ls subj	ect to distributio	n and : Not applicable
	of hazardous materia ol, Annex II	ls subj	ect to distributio	n and : Not applicable
The c AICS	components of this p	oroduc :	et are reported in not determined	n the following inventories:
DSL		:	not determined	
IECS	С	:	not determined	
6. OTHE	R INFORMATION			
Revis	ion Date	:	2023/09/30	
Furth	er information			
	ces of key data used to ile the Safety Data t	0:		al data, data from raw material SDSs, OECD search results and European Chemicals Agen europa.eu/
Date	format	:	yyyy/mm/dd	
Full t	ext of other abbrevia	ations		
ACGI ID OE		:		hreshold Limit Values (TLV) upational Exposure Limits
	H / TWA EL / NAB	:	8-hour, time-we Long term expe	
Land Carcin Stanc x% re ENCS	of Brazil; ASTM - An nogen, Mutagen or I dardisation; DSL - Dor esponse; ELx - Loadi S - Existing and New	nericar Reproo nestic ing rat Chem	a Society for the ductive Toxican Substances List e associated w ical Substances	als; ANTT - National Agency for Transport Testing of Materials; bw - Body weight; CMF ; DIN - Standard of the German Institute ; (Canada); ECx - Concentration associated w th x% response; EmS - Emergency Schedu ; (Japan); ErCx - Concentration associated w

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; IECS - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Or- International Civil Aviation Organization; ISO - International Or-

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ganisation 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.

ID / EN