SAFETY DATA SHEETS

This SDS packet was issued with item:

078056437

The safety data sheets (SDS) in this packet apply to the individual products listed below. Please refer to invoice for specific item number(s).

078921838

The safety data sheets (SDS) in this packet apply to one or more components included in the items listed below. Items listed below may require one or more SDS. Please refer to invoice for specific item number(s).

078056429



UPDATED PRODUCT CODE: 066999 -12.5mg VERSION DATE: 6/2007

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MATERIAL SAFETY DATA SHEET

------ 1. CHEMICAL PRODUCT and COMPANY IDENTIFICATION --------

Product Name: SALIX™ Product Family: PHARMACEUTICALS

PRODUCT:

PRODUCT CODE:

066999 - 12.5 mg

SALIX™ TABLETS

SYNONYMS:

FUROSEMIDE

PRODUCT USE: Refer to product insert for proper usage.

<u>COMPANY ADDRESS</u> - Intervet Inc - 29160 Intervet Lane - Millsboro, DE 19966

------ 2. COMPOSITION / INFORMATION on INGREDIENTS ------

HAZARDOUS COMPONENT:	CONCENTRATION:	CAS NUMBER:
FUROSEMIDE LIQUID	1.0%-5.0%	54-31-9
FUROSEMIDE TABLETS	12.5MG-50MG	54-31-9
3. HAZAP	RDS IDENTIFICATION	

EMERGENCY OVERVIEW: Warning: Milk taken from animals during treatment and for forty-eight hours (four milkings) after the last treatment must not be used for food. Cattle must not be slaughtered for food within forty-eight hours following the last treatment.

SIGNS AND SYMPTOMS OF EXPOSURE: In animals, signs of acute toxicity include lethargy, prostration, diuresis, and weight loss. In humans diuresis should be the first sign of exposure. Excessive diuresis may result in dehydration, hypokalemia, hypocalcemia and orthostatic hypotension. Other symptoms include weakness, fatigue and malaise.

	IUMAN, FIRE, SPILL NIMAL: 1-800-345-4			1-800-228-5635 EXT. 132 24 HRS.
				SPILL, LEAK, FIRE: 1-800-424-9300
PRODUCT INFORMATION:	1-800-835-0541	OR	1-302-934-8051	9:00 A.M 5:00 P.M. EST
Obtained b	y Global Safety Mana	agemer	ıt, 1-813-435-5161 ·	- www.GSMSDS.com



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ROUTES OF ENTRY: Dermal, Injection, Inhalation, Ingestion

ACUTE EFFECTS OF EXPOSURE: May cause irritation at site of contact.

CHRONIC EFFECTS OF EXPOSURE: None known

TARGET ORGAN EFFECTS: Kidney. Furosemide inhibits the absorption of sodium and chlorine in the proximal and distal tubules, and in the loop of Henley.

CARCINOGENIC EFFECTS: This product is not considered a carcinogen and is not listed by OSHA, IRA or NTT.

------ 4. FIRST AID MEASURES ------

Treatment is symptomatic and includes replacement of fluid and electrolytes.

SKIN: Wash immediately affected area with soap and water. Contact a physician.

EYES: Immediately flush with plenty of water for fifteen minutes Contact a physician.

INHALATION: Remove to fresh air. If not breathing, give artificial respiration and call for medical help immediately.

INGESTION: Seek medical attention immediately.

------ 5. FIRE FIGHTING MEASURES ------

FLAMMABILITY: Not Available

EXTINGUISHING METHODS: Use Water, Water Mist, Foam or Dry Chemical to extinguish fire.

FIRE FIGHTING INSTRUCTIONS: Wear full bunker gear, including SCBA. Keep upwind.

------ 6. ACCIDENTAL RELEASE MEASURES------- 6.

PROCEDURES IN CASE OF SPILL OR LEAK: Minor spillage may be flushed away with water. Large volume spills should be collected in salvage containers and should be incinerated in accordance with local, state and federal regulations.

	7.	HANDLING and STORAGE
--	----	----------------------

EMERGENCY:

HUMAN, FIRE, SPILL OR ENVIRONMENTAL: 1-800-228-5635 EXT. 132 24 HRS. ANIMAL: 1-800-345-4735 EXT. 104 24 HRS. CHEMTREC® FOR CHEMICAL EMERGENCY SPILL, LEAK, FIRE: 1-800-424-9300

PRODUCT INFORMATION: 1-800-835-0541 OR 1-302-934-8051 9:00 A.M. - 5:00 P.M. EST



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STORAGE: Store at room temperature (below 25C) in well-closed containers with safety closures. The product should be colorless to slightly brown. Do not use if solution is discolored. Product is light sensitive.

SHELF LIFE: See expiration date on product label.

HANDLING PRECAUTIONS: See product label.

------ 8. EXPOSURE CONTROL / PERSONAL PROTECTION ------

Furosemide Workplace Exposure Limit: (interim) 0.5mg/m3

EYES: Prevent eye contact by wearing appropriate eye protection for handling tasks.

SKIN: Avoid skin contact. Wear chemical resistant gloves, long-sleeves and trousers to prevent dermal contact.

RESPIRATOR PROTECTION: Under normal conditions of use, as stated in the product insert, no respiratory protection is necessary. However, if ventilation is inadequate wear a NIOSH approved respirator.

------ 9. PHYSICAL and CHEMICAL PROPERTIES -------

APPEARANCE: 50mL vials, 12.5mg yellow tablet, or 50mg yellow tablet

PH: 7.0-7.8

------ 10. STABILITY and REACTIVITY ------

CHEMICAL STABILITY: Stable

CONDITIONS TO AVOID: None known

INCOMPATIBILITY: None Known

HAZARDOUS POLYMERIZATION: Will not occur

------ 11. TOXICOLOGICAL INFORMATION ------

EMERGENCY: HUMAN, FIRE, SPILL OR ENVIRONMENTAL: 1-800-228-5635 EXT. 132 24 HRS. ANIMAL: 1-800-345-4735 EXT. 104 24 HRS. CHEMTREC® FOR CHEMICAL EMERGENCY SPILL, LEAK, FIRE: 1-800-424-9300

PRODUCT INFORMATION: 1-800-835-0541 OR 1-302-934-8051 9:00 A.M. – 5:00 P.M. EST



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Oral LD 50 Rat: *4600 mg/kg* Intraperitoneal LD50 (rat): *Not available* Intraperitoneal LD50 (mouse): *Not available*

------ 12. ECOLOGICAL INFORMATION------

ECOTOXITY: Salix (Furosemide) administered to animals presents negligible impact on the environment.

Minor spillage may be flushed away with water. Large volume spills should be collected in salvage containers and should be incinerated in accordance with local, state and federal regulations.

DOT SHIPPING INFORMATION: Not regulated by the DOT

------ 15. REGULATORY INFORMATION------

US FEDERAL REGULATIONS: Salix (Furosemide) is regulated under the US FDA.

------16. OTHER INFORMATION ------

DISCLAIMER:

The information contained herein is true and accurate to the best of the knowledge of Intervet Inc. However, all data, instructions and/or recommendations are made without guarantee. The buyer and handler assume all risk and liability of use, storage and/or handling of this product not in accordance with the terms of the product label.

PRODUCT INFORMATION: 1-800-835-0541 OR 1-302-934-8051 9:00 A.M. - 5:00 P.M. EST





Version 3.2	Revision Date: 04/12/2018		OS Number: 2214-00006	Date of last issue: 10/12/2017 Date of first issue: 05/03/2016		
SECTION	1. IDENTIFICATION					
Prod	uct name	:	Furosemide Injec	tion Formulation		
Manu	ufacturer or supplier's	deta	ails			
Com	pany name of supplier	:	Merck & Co., Inc			
Addro	ess	:	2000 Galloping H Kenilworth - New	lill Road Jersey - U.S.A. 07033		
Telep	Telephone		: 908-740-4000			
Telef	Telefax		: 908-735-1496			
Emei	Emergency telephone		1-908-423-6000			
E-ma	E-mail address		: EHSDATASTEWARD@merck.com			
Reco	ommended use of the o	chen	nical and restricti	ons on use		
Reco	mmended use	:	Veterinary produc	ct		
SECTION	2. HAZARDS IDENTIF	ICA	ΓΙΟΝ			
GHS	classification in accor	rdan	ce with 29 CFR 1	910.1200		
•	ific target organ mic toxicity - repeated sure	:	Category 1 (Kidn	ey, Liver)		

GHS label elements

Hazard pictograms	:

Signal Word :	Danger
Hazard Statements :	H372 Causes damage to organs (Kidney, Liver) through prolonged or repeated exposure.
Precautionary Statements :	Prevention: P260 Do not breathe mist or vapors. 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: P501 Dispose of contents/ container to an approved waste disposal plant.





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Other	hazards					
None	known.					
ECTION	3. COMPOSITION/INF	ORN	IATION ON ING	REDIENTS		
Subat	ance / Mixture		Mixturo			
Subsi	ance / Mixture	•	Mixture			
Hazar	dous ingredients					
-	ical name		CAS-No.	Concentration (% w/w)		
Furos	emide		54-31-9	>= 5 - < 10		
ECTION	4. FIRST AID MEASUF	RES				
Conor	al advice		In the case of c	accident or if you feel unwell, seek medical		
Gener		•		ately., When symptoms persist or in all cases of		
lf inha	led	:	If inhaled, remo Get medical att	ove to fresh air. tention if symptoms occur.		
In cas	e of skin contact	:	of water.	act, immediately flush skin with soap and plenty tention if symptoms occur.		
In cas	e of eye contact	:	Flush eyes with water as a precaution. Get medical attention if irritation develops and persists.			
lf swa	llowed	:	If swallowed, DO NOT induce vomiting. Get medical attention if symptoms occur. Rinse mouth thoroughly with water.			
	mportant symptoms ffects, both acute and ed	:	Causes damage to organs through prolonged or repeated exposure.			
Protec	ction of first-aiders	:	and use the red	nders should pay attention to self-protection, commended personal protective equipment ntial for exposure exists.		
Notes	to physician	:	Treat symptom	atically and supportively.		
ECTION	5. FIRE-FIGHTING ME	ASL	IRES			
Suitab	extinguishing media	:	Water spray Alcohol-resista Carbon dioxide Dry chemical			
Unsuit media	table extinguishing	:	None known.			
Specif fightin	fic hazards during fire g	:	Exposure to co	mbustion products may be a hazard to health.		

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	Hazard ucts	ous combustion prod-	:	Nitrogen oxides (N Carbon oxides Sulfur oxides Chlorine compour	
	Specific ods	c extinguishing meth-	:	cumstances and t Use water spray t	measures that are appropriate to local cir- he surrounding environment. o cool unopened containers. ged containers from fire area if it is safe to do
	Special for fire-	protective equipment fighters	:	In the event of fire Use personal prot	e, wear self-contained breathing apparatus. ective equipment.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protec- : tive equipment and emer- gency procedures	Use personal protective equipment. Follow safe handling advice and personal protective equipment recommendations.
Environmental precautions :	Discharge into the environment must be avoided. 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 diking or other appropriate containment to keep material from spreading. If diked 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.

SECTION 7. HANDLING AND STORAGE

Technical measures	:	See Engineering measures under EXPOSURE CONTROLS/PERSONAL PROTECTION section.
Local/Total ventilation	:	Use only with adequate ventilation.
Advice on safe handling	:	Avoid inhalation of vapor or mist. Do not swallow.



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		Handle in acc practice, base assessment	with eyes. led or repeated contact with skin. ordance with good industrial hygiene and safety ed on the results of the workplace exposure prevent spills, waste and minimize release to the
Cond	litions for safe storage		erly labeled containers. dance with the particular national regulations.
Mate	rials to avoid	: Do not store v Strong oxidizi Organic perov Explosives Gases	

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Ingredients with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parame- ters / Permissible concentration	Basis
Furosemide	54-31-9	TWA	200 µg/m³	Internal
		TWA	OEB 2 (>=100 -	Internal
			1000 ug/m3)	

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. Laboratory operations do not require special containment.

Personal protective equipment

Respiratory protection	:	General and local exhaust ventilation is recommended to maintain vapor exposures below recommended limits. Where concentrations are above recommended limits or are unknown, appropriate respiratory protection should be worn. Follow OSHA respirator regulations (29 CFR 1910.134) and use NIOSH/MSHA approved respirators. Protection provided by air purifying respirators against exposure to any hazardous chemical is limited. Use a positive pressure air supplied respirator if there is any potential for uncontrolled release, exposure levels are unknown, or any other circumstance where air purifying respirators may not provide adequate protection.
Hand protection Material	:	Chemical-resistant gloves

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Eye p	protection	If the work er mists or aero Wear a faces	glasses with side shields or goggles. wironment or activity involves dusty conditions, sols, wear the appropriate goggles. hield or other full face protection if there is a lirect contact to the face with dusts, mists, or
Skin a	and body protection	: Work uniform	or laboratory coat.
Hygie	ene measures	located close When using o Wash contan The effective engineering o appropriate d industrial hyg	eye flushing systems and safety showers are to the working place. do not eat, drink or smoke. ninated clothing before re-use. operation of a facility should include review of controls, proper personal protective equipment, egowning and decontamination procedures, iene monitoring, medical surveillance and the istrative controls.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	Aqueous solution
Color	:	yellow
Odor	:	No information available.
Odor 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
Vapor pressure	:	No data available
Relative vapor density	:	No data available

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Relativ	e density	:	No data available	e
Densit	у	:	No data available	9
	ity(ies) ter solubility	:	No data available	9
	on coefficient: n- I/water	:	No data available	9
Autoig	nition temperature	:	No data available	9
Decom	position temperature	:	No data available	9
Viscos Visc	ity cosity, kinematic	:	No data available	9
Explos	ive properties	:	Not explosive	
Oxidizi	ng properties	:	The substance o	r mixture is not classified as oxidizing.
Particle	e size	:	Not applicable	

SECTION 10. STABILITY AND REACTIVITY

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

SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Inhalation Skin contact Ingestion Eye contact

Acute toxicity

Not classified based on available information.

Product:

Acute oral toxicity

: Acute toxicity estimate: > 5,000 mg/kg



/ersion 8.2	Revision Date: 04/12/2018	-	DS Number: 2214-00006	Date of last issue: 10/12/2017 Date of first issue: 05/03/2016
			Method: Calculati	on method
Com	ponents:			
	semide:			
Acut	e oral toxicity	:	LD50 (Rat): 2,600) mg/kg
			LD50 (Dog): 2,00	0 mg/kg
			LD50 (Rabbit): 80	0 mg/kg
	e toxicity (other routes of inistration)	:	LD0 (Humans): 6 Application Route	
			LD50 (Rat): 800 r Application Route	
Skin	corrosion/irritation			
	classified based on availa			
	ous eye damage/eye irri classified based on availa			
	piratory or skin sensitiz			
_	sensitization			
	classified based on availa	ble	information.	
-	biratory sensitization classified based on availa	ble	information.	
	n cell mutagenicity			
	classified based on availa	ble	information.	
	ponents:			
	semide: ptoxicity in vitro	:	Test Type: Bacter Result: negative	ial reverse mutation assay (AMES)
				o mammalian cell gene mutation test se lymphoma cells
			Test Type: DNA c thesis in mammal Test system: man Result: negative	
				nosome aberration test in vitro nese hamster ovary cells
			Test Type: In vitro malian cells	sister chromatid exchange assay in mam-



sion	Revision Date: 04/12/2018	SDS Number: 632214-00006	Date of last issue: 10/12/2017 Date of first issue: 05/03/2016
		Test system: (Result: negativ	Chinese hamster cells ve
Geno	toxicity in vivo	: Test Type: Ma cytogenetic as Species: Mous Application Ro Result: negativ	se Dute: Ingestion
			oute: Ingestion
	nogenicity lassified based on a	vailable information.	
<u>Com</u>	<u>oonents:</u>		
Furos	semide:		
	cation Route sure time L	: Rat : Ingestion : 104 weeks : 16 mg/kg body : equivocal	y weight
	cation Route sure time EL	: Mouse : Ingestion : 2 Years : 91 mg/kg body : positive	y weight
IARC			sent at levels greater than or equal to 0.1% is or confirmed human carcinogen by IARC.
OSH/		onent of this product pro a's list of regulated carci	esent at levels greater than or equal to 0.1% is nogens.
NTP		dient of this product pres as a known or anticipat	sent at levels greater than or equal to 0.1% is ed carcinogen by NTP.
•	oductive toxicity lassified based on a	vailable information.	
	oonents:		
Furos	semide:		
Effect	ts on fertility	Species: Rat Application Ro General Toxic	e-generation reproduction toxicity study oute: Ingestion ity Parent: NOAEL: 90 mg/kg body weight ects on reproduction parameters.



sion	Revision Date: 04/12/2018	SDS Number: 632214-00006	Date of last issue: 10/12/2017 Date of first issue: 05/03/2016
		Species: Mous Application Ro General Toxic	ne-generation reproduction toxicity study se bute: Ingestion ity Parent: NOAEL: 200 mg/kg body weight ects on reproduction parameters.
Effects	on fetal developmen	Species: Rat Application Ro General Toxic Developmenta Result: No em	rtility/early embryonic development oute: Ingestion ity Maternal: LOAEL: 50 mg/kg body weight al Toxicity: NOAEL: 300 mg/kg body weight ibryotoxic effects., No teratogenic effects. rtility/early embryonic development
		Application Ro General Toxic	bute: Ingestion hity Maternal: LOAEL: 25 mg/kg body weight nal toxicity observed., Fetal effects.
		Species: Rabb Application Ro General Toxic Developmenta	rtility/early embryonic development bit bute: Ingestion ity Maternal: LOAEL: <= 12 mg/kg body weight al Toxicity: LOAEL: 12.5 mg/kg body weight hal toxicity observed., Reduced number of viable
		Species: Rabb Application Ro General Toxic	rtility/early embryonic development bit bute: Ingestion ity Maternal: LOAEL: 15 mg/kg body weight nal toxicity observed., No effects on fetal
STOT-	single exposure		
Not cla	ssified based on ava	lable information.	
STOT-	repeated exposure		
		Kidney, Liver) throug	h prolonged or repeated exposure.
Comp	onents:		
	of exposure Organs	•	duce significant health effects in animals at con- 10 mg/kg bw or less.
Repea	ted dose toxicity		
-	onents:		
<u>Comp</u> e			
<u>Comp</u> Furose	emide:		

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Revision Date: 04/12/2018		••••
ation Route ure time Organs oms	8 mg/kg Ingestion 12 Months Kidney Blood disorders Significant toxicity observed in testing	
•		
ence with human e	sure	
onents:		
emide:		
ion	Remarks: May be harmful if inhaled.	
ontact	Remarks: May irritate skin.	
ontact	Remarks: May cause eye irritation.	
on	Symptoms: Kidney disorders, Headacl ance, dry mouth, hearing loss, Irregula trointestinal disturbance, hypotension	
	04/12/2018 6 ation Route : ure time : Organs : oms : ks : ation toxicity assified based on available	04/12/2018 632214-00006 Date of first issue: 0

Ecotoxicity

Components:

Furosemide:

Toxicity to fish

: LC50: 500 mg/l Exposure time: 96 h

Persistence and degradability

No data available

Bioaccumulative potential

Components:

Furosemide: Partition coefficient: n- : log Pow: 2.03 octanol/water

Mobility in soil

No data available

Other adverse effects No data available

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SECTION	13. DISPOSAL CONS	IDEF	ATIONS	
Dispo	sal methods			
Waste	e from residues	:	Dispose of in a	ccordance with local regulations.
Conta	minated packaging	:	handling site fo	rs should be taken to an approved waste r recycling or disposal. specified: Dispose of as unused product.

SECTION 14. TRANSPORT INFORMATION

International Regulations

UNRTDG Not regulated as a dangerous good

IATA-DGR Not regulated as a dangerous good

IMDG-Code

Not regulated as a dangerous good

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

Not applicable for product as supplied.

Domestic regulation

49 CFR Not regulated as a dangerous good

SECTION 15. REGULATORY INFORMATION

EPCRA - Emergency Planning and Community Right-to-Know

CERCLA Reportable Quantity

This material does not contain any components with a CERCLA RQ.

SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

SARA 302 Extremely Hazardous Substances Threshold Planning Quantity

This material does not contain any components with a section 302 EHS TPQ.

SARA 311/312 Hazards	:	Specific target organ toxicity (single or repeated exposure)
SARA 313	:	This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

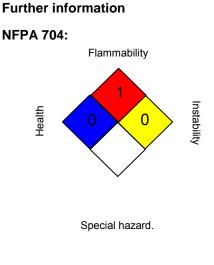
US State Regulations	
Pennsylvania Right To Know	
Water	7732-18-5
Furosemide	54-31-9





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Califo	ornia Prop. 65					
	This product does not contain any chemicals known to the State of California to cause cancer, birth, or any other reproductive defects.					
The ingredients of this product are reported in the following inventories:						
AICS		: not determ	ined			
DSL		: not determ	ined			
IECSO	C	: not determ	ined			

SECTION 16. OTHER INFORMATION



HMIS® IV:



HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. The "*" represents a chronic hazard, while the "/" represents the absence of a chronic hazard.

Full text of other abbreviations

AICS - Australian Inventory of Chemical Substances; ASTM - American Society for the Testing of Materials; bw - Body weight; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DOT - Department of Transportation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; EHS - Extremely Hazardous Substance; 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; HMIS - Hazardous Materials Identification System; 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; MSHA - Mine Safety and Health Administration; n.o.s. - Not Oth-



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erwise Specified; NFPA - National Fire Protection Association; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; 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; RCRA - Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RQ - Reportable Quantity; SADT - Self-Accelerating Decomposition Temperature; SARA - Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance 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

Sources of key data used to	:	Internal technical data, data from raw material SDSs, OECD
compile the Material Safety		eChem Portal search results and European Chemicals Agen-
Data Sheet		cy, http://echa.europa.eu/

Revision Date : 04/12/2018

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.

US / Z8



IDENTIFICATION name cturer or supplier's o by name of supplier ne ncy telephone ddress mended use of the c hended use HAZARDS IDENTIFI assification in accord tible dust target organ toxicity ed exposure	hen	Merck & Co., Ind 2000 Galloping Kenilworth - Nev 908-740-4000 908-735-1496 1-908-423-6000 EHSDATASTEV nical and restrict Veterinary produ TION	IC Hill Road w Jersey - U.S.A. 07033 WARD@merck.com tions on use uct 1910.1200
cturer or supplier's of any name of supplier ne ncy telephone ddress nended use of the contended use HAZARDS IDENTIFI assification in accord tible dust target organ toxicity	hen	Ails Merck & Co., Inc 2000 Galloping Kenilworth - New 908-740-4000 908-735-1496 1-908-423-6000 EHSDATASTEV nical and restrict Veterinary produ	IC Hill Road w Jersey - U.S.A. 07033 WARD@merck.com tions on use uct 1910.1200
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ncy telephone ddress mended use of the c nended use HAZARDS IDENTIFI assification in accord tible dust target organ toxicity	ICA ⁻	908-740-4000 908-735-1496 1-908-423-6000 EHSDATASTEV nical and restrict Veterinary produ TION ce with 29 CFR 7) WARD@merck.com tions on use uct 1910.1200
ddress mended use of the c nended use HAZARDS IDENTIFI assification in accord tible dust target organ toxicity	ICA ⁻	1-908-423-6000 EHSDATASTEV nical and restrict Veterinary produ TION ce with 29 CFR 4	WARD@merck.com tions on use uct 1910.1200
ddress mended use of the c nended use HAZARDS IDENTIFI assification in accord tible dust target organ toxicity	ICA ⁻	EHSDATASTEV nical and restrict Veterinary produ TION ce with 29 CFR	WARD@merck.com tions on use uct 1910.1200
HAZARDS IDENTIFI	ICA ⁻	Veterinary produ TION ce with 29 CFR 7	uct 1910.1200
HAZARDS IDENTIFI assification in accord tible dust target organ toxicity	ICA ⁻ dan	TION ce with 29 CFR ²	1910.1200
assification in accore tible dust target organ toxicity	dan	ce with 29 CFR ²	
tible dust target organ toxicity			
el elements			
pictograms	:		
Vord	:	Danger	
Statements	:	 If small particles are generated during further proces handling or by other means, may form combustible d concentrations in air. H372 Causes damage to organs (Kidney, Liver) throuprolonged or repeated exposure. 	
onary Statements	:	P270 Do not ea Response: P314 Get medic Disposal:	eathe dust. n thoroughly after handling. nt, drink or smoke when using this product. cal advice/ attention if you feel unwell. of contents/ container to an approved waste di
	/ord Statements	/ord : Statements :	Vord : Danger Statements : If small particles handling or by o concentrations H372 Causes d prolonged or re onary Statements : Prevention: P260 Do not br P264 Wash skii P270 Do not ea Response: P314 Get medie Disposal:



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Other hazards

Dust contact with the eyes can lead to mechanical irritation. Contact with dust can cause mechanical irritation or drying of the skin.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Components

Chemical name	CAS-No.	Concentration (% w/w)
Starch	9005-25-8	>= 50 - < 70
Furosemide	54-31-9	>= 10 - < 20
Cellulose	9004-34-6	>= 1 - < 5

Actual concentration is withheld as a trade secret

SECTION 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.
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	:	Causes damage to organs through prolonged or repeated
and effects, both acute and delayed		exposure. Contact with dust can cause mechanical irritation or drying of the skin.
Protection of first-aiders	:	and use the recommended personal protective equipment
Notes to physician	:	when the potential for exposure exists (see section 8). Treat symptomatically and supportively.

SECTION 5. FIRE-FIGHTING MEASURES

Suitable extinguishing media	:	Water spray Alcohol-resistant foam Carbon dioxide (CO2) Dry chemical
Unsuitable extinguishing media	:	None known.
Specific hazards during fire fighting	:	Avoid generating dust; fine dust dispersed in air in sufficient concentrations, and in the presence of an ignition source is a potential dust explosion hazard. Exposure to combustion products may be a hazard to health.



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Haza ucts	rdous combustion prod-	:	Nitrogen oxides (I Carbon oxides Sulfur oxides Chlorine compour	
Speci ods	fic extinguishing meth-	:	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.	
	al protective equipment e-fighters	:		e, wear self-contained breathing apparatus. tective equipment.
SECTION	6. ACCIDENTAL RELE	AS	E MEASURES	
tive e	onal precautions, protec- quipment and emer- / procedures	:		tective equipment. ing advice and personal protective mendations.
Envir	onmental precautions	 Discharge into the environment must be avoid Prevent further leakage or spillage if safe to de Retain and dispose of contaminated wash wat Local authorities should be advised if significa cannot be contained. 		akage or spillage if safe to do so. se of contaminated wash water. should be advised if significant spillages
	Methods and materials for : containment and cleaning up		Sweep up or vacuum up spillage and collect in suitable container for disposal. Avoid dispersal of dust in the air (i.e., clearing dust surfaces with compressed air). Dust deposits should not be allowed to accumulate on surfaces, as these may form an explosive mixture if they are released into the atmosphere in sufficient concentration. 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.	

SECTION 7. HANDLING AND STORAGE

Technical measures	:	Static electricity may accumulate and ignite suspended dust causing an explosion. Provide adequate precautions, such as electrical grounding and bonding, or inert atmospheres.
Local/Total ventilation Advice on safe handling		Use only with adequate ventilation. Do not breathe dust. Do not swallow. Avoid contact with eyes. Avoid prolonged or repeated contact with skin. Handle in accordance with good industrial hygiene and safety practice, based on the results of the workplace exposure



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			assessment Minimize dust generation and accumulation. Keep container closed when not in use. Keep away from heat and sources of ignition. Take precautionary measures against static discharges. Take care to prevent spills, waste and minimize release to the environment.			
Conditions for safe storage		: Keep in properly labeled containers. Store in accordance with the particular national regulations.				
Mater	rials to avoid		th the following product types: g agents			

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components	CAS-No.	Value type (Form of exposure)	Control parame- ters / Permissible concentration	Basis
Starch	9005-25-8	TWA	10 mg/m ³	ACGIH
		TWA (Res- pirable)	5 mg/m³	NIOSH REL
		TWA (total)	10 mg/m ³	NIOSH REL
		TWA (total dust)	15 mg/m³	OSHA Z-1
		TWA (respir- able fraction)	5 mg/m³	OSHA Z-1
Furosemide	54-31-9	TWA	200 µg/m³	Internal
		TWA	OEB 2 (>=100 - 1000 ug/m3)	Internal
Cellulose	9004-34-6	TWA	10 mg/m ³	ACGIH
		TWA (Res- pirable)	5 mg/m³	NIOSH REL
		TWA (total)	10 mg/m ³	NIOSH REL
		TWA (total dust)	15 mg/m ³	OSHA Z-1
		TWA (respir- able fraction)	5 mg/m³	OSHA Z-1

Ingredients with workplace control parameters

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 equipment	
Respiratory protection :	General and local exhaust ventilation is recommended to maintain vapor exposures below recommended limits. Where concentrations are above recommended limits or are

unknown, appropriate respiratory protection should be worn.



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lload		use NIOSH/MS by air purifying hazardous che supplied respir release, expos	espirator regulations (29 CFR 1910.134) and GHA approved respirators. Protection provided respirators against exposure to any mical is limited. Use a positive pressure air ator if there is any potential for uncontrolled ure levels are unknown, or any other where air purifying respirators may not provide action.
	protection aterial	: Chemical-resis	tant gloves
Eye p	protection	If the work env mists or aeroso Wear a faceshi	asses with side shields or goggles. ironment or activity involves dusty conditions, ols, wear the appropriate goggles. field or other full face protection if there is a ect contact to the face with dusts, mists, or
	and body protection ne measures	: If exposure to or eye flushing sy working place. When using do Wash contamin The effective or engineering co appropriate de	or laboratory coat. chemical is likely during typical use, provide stems and safety showers close to the not eat, drink or smoke. nated clothing before re-use. peration of a facility should include review of ntrols, proper personal protective equipment, gowning and decontamination procedures, ne monitoring, medical surveillance and the trative controls.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	powder
Color	:	yellow
Odor	:	No data available
Odor Threshold	:	No data available
рН	:	No data available
Melting point/freezing point	:	No data available
Initial boiling point and boiling	:	No data available
range Flash point	:	Not applicable
Evaporation rate	:	No data available
Flammability (solid, gas)	:	May form explosive dust-air mixture during processing, handling or other means.
Flammability (liquids)	:	No data available

SAFETY DATA SHEET



Furosemide Solid Formulation

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		explosion limit / Upper bility limit	:	No data available)
		explosion limit / Lower bility limit	:	No data available	
	Vapor p	oressure	:	No data available	
	Relativ	e vapor density	:	No data available	
	Relativ	e density	:	No data available)
	Density	/	:	No data available)
	Solubili Wat	ty(ies) er solubility	:	No data available)
	Partitio octanol	n coefficient: n-	:	No data available)
		nition temperature	:	No data available	
	Decom	position temperature	:	No data available)
	Viscosi Visc	ty cosity, kinematic	:	No data available)
	Explosi	ve properties	:	Not explosive	
	Oxidizii	ng properties	:	The substance of	r mixture is not classified as oxidizing.
	Molecu	lar weight	:	Not applicable	
	Particle	e size	:	No data available	

SECTION 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 proces handling or other means. Can react with strong oxidizing agents.	sing,
Conditions to avoid Incompatible materials	Heat, flames and sparks. Avoid dust formation. Oxidizing agents	
Hazardous decomposition products	No hazardous decomposition products are known.	ı

SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure Inhalation Skin contact



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Ingest Eye co				
	toxicity			
	assified based on availa	ble	information.	
<u>Produ</u>	ıct:			
	oral toxicity	:	Acute toxicity est Method: Calculat	imate: > 5,000 mg/kg ion method
Comp	oonents:			
Starc	h:			
Acute	oral toxicity	:	LD50 (Mouse): >	5,000 mg/kg
Furos	semide:			
Acute	oral toxicity	:	LD50 (Rat): 2,600	0 mg/kg
			LD50 (Dog): 2,00	00 mg/kg
			LD50 (Rabbit): 80	00 mg/kg
	toxicity (other routes of istration)	:	LD0 (Humans): 6 Application Route	
			LD50 (Rat): 800 (Application Route	
Cellul	ose:			
Acute	oral toxicity	:	LD50 (Rat): > 5,0	000 mg/kg
Acute	inhalation toxicity	:	LC50 (Rat): > 5.8 Exposure time: 4 Test atmosphere	h
Acute	dermal toxicity	:	LD50 (Rabbit): >	2,000 mg/kg
-	corrosion/irritation assified based on availa	able	information.	
	us eye damage/eye irr assified based on availa			
Respi	ratory or skin sensitiz	atio	n	
	sensitization assified based on availa	able	information.	
-	iratory sensitization assified based on availa	able	information.	
	cell mutagenicity assified based on availa	able	information.	



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Com	ponents:		
Furos	semide:		
Geno	toxicity in vitro	: Test Type: Ba Result: negativ	cterial reverse mutation assay (AMES) ve
			vitro mammalian cell gene mutation test nouse lymphoma cells e
		thesis in mam	IA damage and repair, unscheduled DNA syn- malian cells (in vitro) nammalian liver cells ve
			romosome aberration test in vitro Chinese hamster ovary cells e
		malian cells	vitro sister chromatid exchange assay in mam- Chinese hamster cells ve
Geno	toxicity in vivo	: Test Type: Ma cytogenetic as Species: Mous Application Ro Result: negativ	se Dute: Ingestion
			oute: Ingestion
Cellu	lose:		
	toxicity in vitro	: Test Type: Ba Result: negativ	cterial reverse mutation assay (AMES) ve
		Test Type: In Result: negativ	vitro mammalian cell gene mutation test ve
Geno	toxicity in vivo	: Test Type: Ma cytogenetic as Species: Mous Application Ro Result: negativ	se pute: Ingestion

Carcinogenicity

Not classified based on available information.



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<u>Cc</u>	omponents:			
Sp Ap Ex LC Re	urosemide: pecies oplication Rot posure time DAEL esult	ute	: Rat : Ingestion : 104 weeks : 16 mg/kg body we : equivocal	eight
Ap Ex LC	pecies oplication Rot oposure time DAEL esult	ute	 Mouse Ingestion 2 Years 91 mg/kg body we positive 	eight
Sp Ap Ex	ellulose: becies oplication Rot cposure time esult	ute	: Rat : Ingestion : 72 weeks : negative	
IA	RC			at levels greater than or equal to 0.1% is onfirmed human carcinogen by IARC.
0	SHA		of this product preser of regulated carcinog	nt at levels greater than or equal to 0.1% is ens.
N	ГР		f this product present nown or anticipated of	at levels greater than or equal to 0.1% is carcinogen by NTP.
	eproductive ot classified b	toxicity based on availabl	le information.	
	omponents:			
	Irosemide: fects on fertil	ity	Species: Rat Application Route General Toxicity F	eneration reproduction toxicity study : Ingestion Parent: NOAEL: 90 mg/kg body weight on reproduction parameters.
			Species: Mouse Application Route General Toxicity F	eneration reproduction toxicity study : Ingestion Parent: NOAEL: 200 mg/kg body weight on reproduction parameters.
Ef	fects on fetal	development	Species: Rat Application Route General Toxicity M Developmental To	y/early embryonic development : Ingestion Maternal: LOAEL: 50 mg/kg body weight oxicity: NOAEL: 300 mg/kg body weight otoxic effects., No teratogenic effects.



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			Species: Mouse Application Rou General Toxicity	
			Species: Rabbit Application Rou General Toxicity Developmental	
			Species: Rabbit Application Rou General Toxicity	
Cellu	lose:			
Effect	s on fertility	:	Test Type: One Species: Rat Application Rou Result: negative	
Effect	s on fetal development	:	Test Type: Ferti Species: Rat Application Rou Result: negative	
STOT	-single exposure			
	assified based on availa	able	information.	
	-repeated exposure			
	es damage to organs (K ponents:	iane	ey, Liver) through	prolonged or repeated exposure.
Route Targe	semide: es of exposure et Organs ssment	: :		ice significant health effects in animals at con 0 mg/kg bw or less.
Repe	ated dose toxicity			
Comp	oonents:			
	semide:			
Speci		:	Dog	



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	Exposu	ition Route ure time Organs oms	:	8 mg/kg Ingestion 12 Months Kidney Blood disorders Significant toxicity	observed in testing
		S	:	Rat >= 9,000 mg/kg Ingestion 90 Days	
	Not cla	tion toxicity ssified based on availa ence with human exp			
	-	onents:			
	Furose Inhalati Skin co Eye co Ingestio	ion ontact ntact		Remarks: May irri Remarks: May ca Symptoms: Kidne ance, dry mouth,	
SEC	TION 1	2. ECOLOGICAL INFO	ORI	ATION	
	Ecotox	kicity			
	<u>Compo</u>	onents:			
	Furose Toxicity	emide: / to fish	:	LC50: 500 mg/l Exposure time: 96	3 h
	Celluic Toxicity	ose: / to fish	:	Exposure time: 48	ipes (Japanese medaka)): > 100 mg/l 3 h on data from similar materials
	Persist	tence and degradabil	ity		
	<u>Compo</u>	onents:			
	Cellulo Biodeg	ose: radability	:	Result: Readily bi	odegradable.



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Bioa	ccumulative potential			
Com	ponents:			
Partit	semide: ion coefficient: n- ol/water	:	log Pow: 2.03	
	lity in soil ata available			
	r adverse effects ata available			
SECTION	13. DISPOSAL CONS	IDER	ATIONS	
Disp	osal methods			
Wast	e from residues aminated packaging	:	Empty contain handling site for	accordance with local regulations. ers should be taken to an approved waste or recycling or disposal. e specified: Dispose of as unused product.
SECTION	14. TRANSPORT INF	ORM	ATION	
Interi	national Regulations			
UNR ⁻ Not re	TDG egulated as a dangerou	us goo	od	
	-DGR egulated as a dangerou	us goo	d	
-	-Code egulated as a dangerou	us goo	od	
	•	-		RPOL 73/78 and the IBC Code
	pplicable for product as estic regulation	s supp	blied.	
49 CI	-	us aoc	od	
	15. REGULATORY IN	-		
EPCF	RA - Emergency Plan	ning a	Ind Community	y Right-to-Know
	CLA Reportable Quan material does not conta	•	/ components w	vith a CERCLA RQ.
	A 304 Extremely Haza material does not conta			Reportable Quantity vith a section 304 EHS RQ.
			•	Threshold Planning Quantity

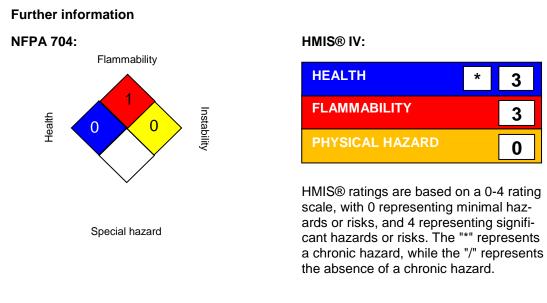
SARA 302 Extremely Hazardous Substances Threshold Planning Quantity This material does not contain any components with a section 302 EHS TPQ.

SARA 311/312 Hazards : Combustible dust



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SARA	313	: This material doe known CAS num	es not contain any cho bers that exceed the	r repeated exposure) emical components with threshold (De Minimis) Title III, Section 313.
US Sta	ate Regulations			
Pennsylvania Right To Know Starch D-Glucose, 4-ObetaD-galactopyranosyl-, monol Furosemide Cellulose			yl-, monohydrate	9005-25-8 64044-51-5 54-31-9 9004-34-6
Califo	rnia Permissible Expo Starch Cellulose	osure Limits for Chen	nical Contaminants	9005-25-8 9004-34-6
The ingredients of this product are reported in the following inventories:				
AICS		: not determined		
DSL		: not determined		
IECSC	;	: not determined		

SECTION 16. OTHER INFORMATION



Full text of other abbreviations

ACGIH	:	USA. ACGIH Threshold Limit Values (TLV)
NIOSH REL	:	USA. NIOSH Recommended Exposure Limits
OSHA Z-1	:	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Lim- its for Air Contaminants
ACGIH / TWA	:	8-hour, time-weighted average



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	SH REL / TWA A Z-1 / TWA		average concentration for up to a 10-hour a 40-hour workweek ghted average
Mate and Germ stand ardo ENC x% g tem; Inter - Inte in Bu tion; Dang Law cals 50% venti erwis Effec Cher of Cl stand REA ing t Quai men Inver Unite	rials; bw - Body weight; Liability Act; CMR - Ca nan Institute for Standar ces List (Canada); ECx us Substance; ELx - Loa S - Existing and New C growth rate response; El GLP - Good Laboratory national Agency for Res ernational Code for the C ulk; IC50 - Half maximal IECSC - Inventory of E: gerous Goods; IMO - Int (Japan); ISO - Internation Inventory; LC50 - Lethat of a test population (Me on of Pollution from Shi se Specified; NFPA - Na et Concentration; NO(A) et Loading Rate; NTP - micals; OECD - Organiz hemical Safety and Poll ce; PICCS - Philippines e) Structure Activity R CH - Regulation (EC) N he Registration, Evalua ntity; SADT - Self-Acce ts and Reauthorization mory; TSCA - Toxic Sub	CERCLA - Comprehe rcinogen, Mutagen or disation; DOT - Depa - Concentration associated chemical Substances RG - Emergency Resp Practice; HMIS - Haz earch on Cancer; IAT. Construction and Equi inhibitory concentration kisting Chemical Subs ernational Maritime Of onal Organisation for S onal Organisation for S onal Organisation for S onal Organisation for S onal Chemical Subs ernational Maritime Of onal Organisation for S onal Organisation for S onal Organisation for S onal Chemical Subs ernational Maritime Of onal Organisation for S onal Organisation fo	es; ASTM - American Society for the Testing of insive Environmental Response, Compensation, Reproductive Toxicant; DIN - Standard of the rtment of Transportation; DSL - Domestic Sub- iated with x% response; EHS - Extremely Haz- with x% response; EMS - Emergency Schedule; (Japan); ErCx - Concentration associated with bonse Guide; GHS - Globally Harmonized Sys- cardous Materials Identification System; IARC - A - International Air Transport Association; IBC pment of Ships carrying Dangerous Chemicals in; ICAO - International Civil Aviation Organiza- tances in China; IMDG - International Maritime rganization; ISHL - Industrial Safety and Health Standardization; KECI - Korea Existing Chemi- % of a test population; LD50 - Lethal Dose to ARPOL - International Convention for the Pre- ety and Health Administration; n.o.s Not Oth- Association; NO(A)EC - No Observed (Adverse) dverse) Effect Level; NOELR - No Observable Program; NZIOC - New Zealand Inventory of o-operation and Development; OPPTS - Office T - Persistent, Bioaccumulative and Toxic sub- s and Chemical Substances; (Q)SAR - (Quanti- Resource Conservation and Recovery Act; propean Parliament and of the Council concern- ind Restriction of Chemicals; RQ - Reportable on Temperature; SARA - Superfund Amend- ta Sheet; TCSI - Taiwan Chemical Substance Jnited States); UN - United Nations; UNRTDG - rt of Dangerous Goods; vPvB - Very Persistent

Sources of key data used to	
compile the Material Safety	
Data Sheet	

: Internal technical data, data from raw material SDSs, OECD eChem Portal search results and European Chemicals Agency, http://echa.europa.eu/

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