

according to the OSHA Hazard Communication Standard

Piliguard Pinkeye-1 Formulation

Version 3.0	Revision Date: 07/06/2024		DS Number: 359153-00004	Date of last issue: 05/29/2024 Date of first issue: 02/29/2024
SECTION	1. IDENTIFICATION			
	uct name r means of identification	:		e-1 Formulation ye-1 Trivalent (A008192) ILIS PILIGUARD PINKEYE VACCINE
Manu	ufacturer or supplier's	deta	ails	
Com Addr	pany name of supplier ess		Merck & Co., Inc 126 E. Lincoln Av Rahway, New Je	venue rsey U.S.A. 07065
Emei	bhone rgency telephone ail address	:	908-740-4000 1-908-423-6000	ARD@merck.com
Reco	ommended use of the c	hen	nical and restriction	ons on use

Recommended use of the	cnem	lical and restrictions
Recommended use	:	Veterinary product
Restrictions on use	:	Not applicable

SECTION 2. HAZARDS IDENTIFICATION

GHS classification in accordance with the OSHA Hazard Communication Standard (29 CFR
1910.1200)

Aspiration hazard	:	Category 1
GHS label elements Hazard pictograms	:	
Signal Word	:	Danger
Hazard Statements	:	H304 May be fatal if swallowed and enters airways.
Precautionary Statements	:	Response: P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER. P331 Do NOT induce vomiting.
		Storage: P405 Store locked up.
		Disposal: P501 Dispose of contents and container to an approved waste disposal plant.

Other hazards

None known.



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SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Components

Chemical name	CAS-No.	Concentration (% w/w)
Paraffin oil	8012-95-1	50.52
Antigen	Not Assigned	21
Benzyl alcohol	100-51-6	0.45

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. Get medical attention if symptoms occur.
In case of skin contact	:	Wash with water and soap as a precaution. Get medical attention if symptoms occur.
In case of eye contact	:	Flush eyes with water as a precaution. Get medical attention if irritation develops and persists.
If swallowed	:	If swallowed, DO NOT induce vomiting. If vomiting occurs have person lean forward. Call a physician or poison control center immediately. Never give anything by mouth to an unconscious person.
Most important symptoms and effects, both acute and delayed	:	May be fatal if swallowed and enters airways.
Protection of first-aiders	:	First Aid responders should pay attention to self-protection, and use the recommended personal protective equipment when the potential for exposure exists (see section 8).
Notes to physician	:	Treat symptomatically and supportively.

SECTION 5. FIRE-FIGHTING MEASURES

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





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		protective equipment fighters	:	In the event of fire Use personal prot	e, wear self-contained breathing apparatus. ective equipment.
SEC	TION 6	. ACCIDENTAL RELE	ASI	E MEASURES	
t	tive equ	al precautions, protec- uipment and emer- procedures	:		ective equipment. ing advice (see section 7) and personal ent recommendations (see section 8).
	Environ	nmental precautions	:	Prevent spreading oil barriers). Retain and dispos	akage or spillage if safe to do so. g over a wide area (e.g., by containment or se of contaminated wash water. should be advised if significant spillages
Methods and materials for containment and cleaning up		:	For large spills, pr containment to ke can be pumped, s container. Clean up remainir absorbent. Local or national r disposal of this ma employed in the c determine which r Sections 13 and 1	a absorbent material. Tovide diking or other appropriate ep material from spreading. If diked material tore recovered material in appropriate ing materials from spill with suitable regulations may apply to releases and aterial, as well as those materials and items leanup of releases. You will need to egulations are applicable. 5 of this SDS provide information regarding tional requirements.	

SECTION 7. HANDLING AND STORAGE

Technical measures	See Engineering measures under EXPOSURI CONTROLS/PERSONAL PROTECTION sect	
Local/Total ventilation Advice on safe handling	Jse only with adequate ventilation. Avoid inhalation of vapor or mist. Do not swallow. Avoid contact with eyes. Avoid prolonged or repeated contact with skin Handle in accordance with good industrial hygo practice, based on the results of the workplace assessment Keep container tightly closed. Take care to prevent spills, waste and minimizen environment.	iene and safety e exposure
Conditions for safe storage	Keep in properly labeled containers. Store locked up. Keep tightly closed. Store in accordance with the particular nationa	al regulations.
Materials to avoid	Do not store with the following product types: Strong oxidizing agents	



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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
Paraffin oil	8012-95-1	TWA (Inhal- able particu- late matter)	5 mg/m³	ACGIH
		TWA (Mist)	5 mg/m ³	OSHA Z-1
		TWA (Mist)	5 mg/m³	NIOSH REL
		ST (Mist)	10 mg/m ³	NIOSH REL
Benzyl alcohol	100-51-6	TWA	10 ppm	US WEEL

Engineering measures :	Use appropriate engineering controls and manufacturing technologies to control airborne concentrations (e.g., drip- less quick connections). All engineering controls should be implemented by facility design and operated in accordance with GMP principles to protect products, workers, and the environment. Containment technologies suitable for controlling compounds are required to control at source and to prevent migration of the compound to uncontrolled areas (e.g., open-face containment devices). Minimize open handling.
Personal protective equipment	t
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
Remarks : Eye protection :	Consider double gloving. 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.





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Skin and body protection		 Work uniform or laboratory coat. Additional body garments should be used based upon the task being performed (e.g., sleevelets, apron, gauntlets, disposable suits) to avoid exposed skin surfaces. Use appropriate degowning techniques to remove potenti contaminated clothing. 			
Hygiene measures		eye flushing sys working place. When using do Wash contamin The effective op engineering cor appropriate deg	hemical is likely during typical use, provide stems and safety showers close to the not eat, drink or smoke. ated clothing before re-use. beration of a facility should include review of ntrols, proper personal protective equipment, owning and decontamination procedures, ne monitoring, medical surveillance and the rative controls.		

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	suspension
Color	:	No data available
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 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
Relative density	:	No data available



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Density		:	No data available	e	
	Solubil Wat	ity(ies) ter solubility	:	No data available	e
	Partitio octano	n coefficient: n-	:	Not applicable	
	••••••	nition temperature	:	No data available	9
	Decomposition temperature		:	No data available	e
	Viscosity Viscosity, kinematic		:	No data available	e
	Explosive properties		:	Not explosive	
	Oxidizing properties		:	The substance o	r mixture is not classified as oxidizing.
	Molecu	ılar weight	:	No data available	9
	Particle Particle	e characteristics e size	:	No data available	e

SECTION 10. STABILITY AND REACTIVITY

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

SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely rou Inhalation Skin contact Ingestion Eye contact	tes of exposure	
Acute toxicity Not classified based on av	ailable information.	
<u>Components:</u>		
Paraffin oil: Acute oral toxicity	: LD50 (Rat): > 5,000 mg/kg	
Acute dermal toxicity	: LD50 (Rabbit): > 2,000 mg/kg	



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ersion)	Revision Date: 07/06/2024		OS Number: 359153-00004	Date of last issue: 05/29/2024 Date of first issue: 02/29/2024	
			Assessment: Th toxicity	ne substance or mixture has no acute derma	
Benz	yl alcohol:				
	oral toxicity	:	LD50 (Rat): 1,6	20 mg/kg	
Acute inhalation toxicity :		:	LC50 (Rat): > 4.178 mg/l Exposure time: 4 h Test atmosphere: dust/mist Method: OECD Test Guideline 403		
-	corrosion/irritation lassified based on ava	ailable	information.		
Com	oonents:				
Paraf	fin oil:				
Speci Resu		:	Rabbit No skin irritatior	1	
Benz	yl alcohol:				
Speci Metho Resu	bd	:	Rabbit OECD Test Gui No skin irritatior		
	us eye damage/eye				
	lassified based on ava ponents:	allable	information.		
-	fin oil:				
Speci Resu	es	:	Rabbit No eye irritatior	1	
Benz	yl alcohol:				
Speci Resu Metho	les	:	Rabbit Irritation to eyes OECD Test Gui	s, reversing within 21 days Ideline 405	
Resp	iratory or skin sensi	tizatio	'n		
Skin	sensitization				
Not c	lassified based on ava	ailable	information.		
-	iratory sensitization lassified based on ava		information.		
Com	oonents:				
D	vi elechel:				

Benzyl alcohol:

Test Type

Maximization Test

:



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sion	Revision Da 07/06/2024		SDS Number: 1359153-00004	Date of last issue: 05/29/2024 Date of first issue: 02/29/2024			
Routes of exposure Species Method Result		:	Skin contact Guinea pig OECD Test Gui negative	ideline 406			
	cell mutagen i ssified based		e information.				
<u>Compo</u>	onents:						
Benzyl	l alcohol:						
	oxicity in vitro	:	: Test Type: Bacterial reverse mutation assay (AMES) Result: negative				
Genotoxicity in vivo		:	cytogenetic ass Species: Mouse Application Rou	Test Type: Mammalian erythrocyte micronucleus test (in vivo cytogenetic assay) Species: Mouse Application Route: Intraperitoneal injection Result: negative			
Consin	ogenicity						
Not cla		on availabl	e information.				
Not cla <u>Compo</u>	ssified based	on availabl	e information.				
Not cla <u>Compo</u> Benzyl Specie Applica	ssified based onents: alcohol: s ation Route ure time	on availabl : : : : :	e information. Mouse Ingestion 103 weeks OECD Test Gui negative	ideline 451			
Not cla <u>Compo</u> Benzyl Specie Applica Exposu Method	ssified based onents: I alcohol: s ation Route ure time d No ir	: : : : : : : :	Mouse Ingestion 103 weeks OECD Test Gui negative f this product prese	Ideline 451 ent at levels greater than or equal to 0.1% is confirmed human carcinogen by IARC.			
Not cla <u>Compo</u> Benzyl Specie Applica Exposu Method Result	ssified based onents: I alcohol: s ation Route ure time d No ir ident No c	ngredient of tified as pro	Mouse Ingestion 103 weeks OECD Test Gui negative f this product prese bable, possible or	ent at levels greater than or equal to 0.1% is confirmed human carcinogen by IARC.			
Not cla <u>Compo</u> Benzyl Specie Applica Exposu Methoo Result IARC	ssified based onents: I alcohol: s ation Route ure time d No ir ident No c on C No ir	ngredient of tified as pro SHA's list o ngredient of	Mouse Ingestion 103 weeks OECD Test Gui negative this product prese bable, possible or of this product prese of regulated carcin	ent at levels greater than or equal to 0.1% is confirmed human carcinogen by IARC. sent at levels greater than or equal to 0.1% is			
Not cla Compo Benzyl Specie Applica Exposu Methoo Result IARC OSHA NTP Reproo	ssified based onents: I alcohol: s ation Route ure time d No ir ident No c on C No ir ident	ngredient of tified as pro component of SHA's list of ngredient of tified as a k	Mouse Ingestion 103 weeks OECD Test Gui negative this product prese bable, possible or of this product prese of regulated carcin	ent at levels greater than or equal to 0.1% is confirmed human carcinogen by IARC. sent at levels greater than or equal to 0.1% is ogens. ent at levels greater than or equal to 0.1% is			

Spec Appli Resu	Type: Fertility/early embryonic development ies: Rat cation Route: Ingestion It: negative arks: Based on data from similar materials
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Effec	ets on fetal development	:	Test Type: Embr Species: Mouse Application Route Result: negative	yo-fetal development e: Ingestion
	T-single exposure			
Not o	classified based on availa	able	information.	
	T-repeated exposure			
Not o	classified based on availa	able	information.	
Repe	eated dose toxicity			
Com	ponents:			
Para	ffin oil:			
Spec		:	Rat, female	
LOA Appl	EL ication Route	:	161 mg/kg Ingestion	
	osure time	:	90 Days	
Benz	zyl alcohol:			
Spec	cies	:	Rat	
NOA		:	1.072 mg/l	
	ication Route	÷	inhalation (dust/n 28 Days	nist/fume)
Meth		:	OECD Test Guid	eline 412
Aspi	ration toxicity			
-	be fatal if swallowed and	l ent	ters airways.	
Com	ponents:			

Components:

Paraffin oil:

The substance or mixture is known to cause human aspiration toxicity hazards or has to be regarded as if it causes a human aspiration toxicity hazard.

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity		
Components:		
Paraffin oil:		
Toxicity to fish	:	LL50 (Scophthalmus maximus (turbot)): > 100 mg/l Exposure time: 96 h Test substance: Water Accommodated Fraction Remarks: Based on data from similar materials
Toxicity to daphnia and other aquatic invertebrates	:	EL50 (Acartia tonsa (Calanoid copepod)): > 100 mg/l Exposure time: 48 h Test substance: Water Accommodated Fraction



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				Remarks: Based of	on data from similar materials
	Toxicity to algae/aquatic plants		:	Exposure time: 72 Test substance: V	na costatum (marine diatom)): > 100 mg/l ? h Vater Accommodated Fraction on data from similar materials
				Exposure time: 72 Test substance: V	ema costatum (marine diatom)): > 1 mg/l ? h Vater Accommodated Fraction on data from similar materials
	Benzyl	alcohol:			
	Toxicity		:	LC50 (Pimephales Exposure time: 96	s promelas (fathead minnow)): 460 mg/l 5 h
		to daphnia and other invertebrates	:	EC50 (Daphnia m Exposure time: 48 Method: OECD Te	
	Toxicity plants	to algae/aquatic	:	EC50 (Pseudokiro mg/l Exposure time: 72 Method: OECD Te	
				NOEC (Pseudokir mg/l Exposure time: 72 Method: OECD Te	
		to daphnia and other invertebrates (Chron- ty)	:	NOEC (Daphnia n Exposure time: 21 Method: OECD Te	
	Persist	ence and degradabili	ty		
	Compo	onents:			
	•	alcohol: radability	:	Result: Readily bio Biodegradation: S Exposure time: 14	92 - 96 %
	Bioacc	umulative potential			
	Compo	onents:			
	Paraffin Partition octanol	n coefficient: n-	:	log Pow: > 4 Remarks: Calcula	tion
	Benzyl	alcohol:			



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	ion coefficient: n- ol/water	: log Pow: 1.05		
Mobility in soil No data available				
Other adverse effects No data available				
SECTION 13. DISPOSAL CONSIDERATIONS				

Disposal methods

Waste from residues	:	Dispose of in accordance with local regulations. Do not dispose of waste into sewer.
Contaminated packaging	:	Empty containers should be taken to an approved waste
		handling site for recycling or disposal. If not otherwise 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

Special precautions for user

Not applicable

SECTION 15. REGULATORY INFORMATION

CERCLA Reportable Quantity

Components	CAS-No.	Component RQ	Calculated product RQ
		(lbs)	(lbs)
Formaldehyde	50-00-0	100	135135

SARA 304 Extremely Hazardous Substances Reportable Quantity

Components	CAS-No.	Component RO	Calculated product RQ
		(lbs)	(lbs)
Formaldehyde	50-00-0	100	135135





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SARA 302 Extremely Hazardous Substances Threshold Planning Quantity This material does not contain any components with a section 302 EHS TPQ.					
SA	ARA 311/312 Hazards	: Aspiration hazard			
SA	ARA 313	known CAS numbers	ot contain any chemical components with s that exceed the threshold (De Minimis) blished by SARA Title III, Section 313.		
US	US State Regulations				
Pennsylvania Right To KnowParaffin oil8012-95-1AntigenNot AssignedWater7732-18-5Sorbitan monooleate1338-43-8Polyethylene glycol sorbitan monooleate9005-65-6Formaldehyde50-00-0California Prop. 65WARNING: This product can expose you to chemicals including Formaldehyde, which is/are known to the State of California to cause cancer, andGentamicin, which is/are known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.					
Ca	alifornia List of Hazardous Paraffin oil	s Substances	8012-95-1		
Ca	alifornia Permissible Expo Paraffin oil	osure Limits for Chemica			
	ne ingredients of this prod CS	duct are reported in the f : not determined	ollowing inventories:		
DS	SL	: not determined			
IE	CSC	: not determined			

SECTION 16. OTHER INFORMATION

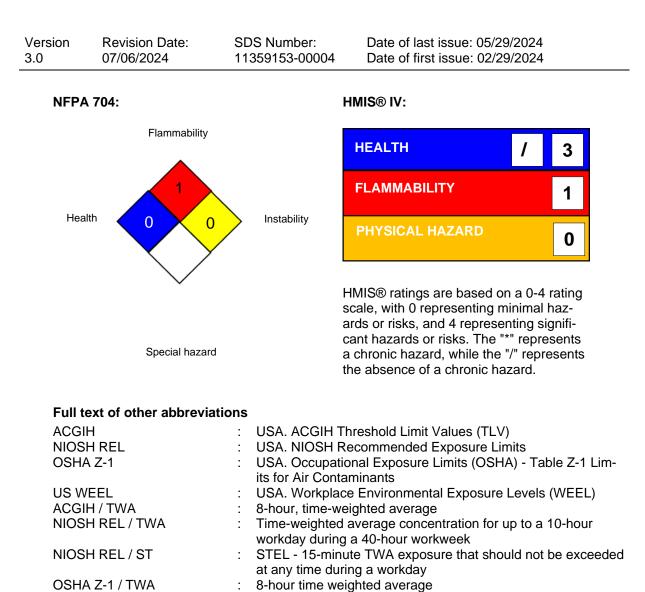
Further information

US WEEL / TWA



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AIIC - Australian Inventory of Industrial Chemicals; 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 Otherwise Specified; NFPA - National Fire Protection Association; NO(A)EC - No Observed (Adverse)

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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; 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

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

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

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