according to the Globally Harmonized System



Estradiol Gel Formulation

Version	Revision Date:	SDS Number:	Date of last issue: 04.04.2023
2.0	30.09.2023	10608784-00006	Date of first issue: 08.02.2022

1. PRODUCT AND COMPANY IDENTIFICATION

Product name	:	Estradiol Gel Formulation			
Manufacturer or supplier's de	eta	ils			
Company	:	Organon & Co.			
Address	:	30 Hudson Street, 33nd floor Jersey City, New Jersey, U.S.A 07302			
Telephone	:	+1-551-430-6000			
Emergency telephone number	:	+1-215-631-6999			
E-mail address	:	EHSSTEWARD@organon.com			
Recommended use of the chemical and restrictions on use					
Recommended use Restrictions on use	:	Pharmaceutical Not applicable			

2. HAZARDS IDENTIFICATION

Manufacture, Storage and Import of Hazardous Chemicals Rules 1989

Classification		
Very highly flammable liquids		
GHS Classification		
Flammable liquids	:	Category 2
Serious eye damage/eye irri- tation	:	Category 2A
Carcinogenicity	:	Category 1A
Reproductive toxicity	:	Category 1A
Specific target organ toxicity - repeated exposure	:	Category 1 (Liver, Bone, Blood, Endocrine system)
Long-term (chronic) aquatic hazard	:	Category 1
GHS label elements		
Hazard pictograms	:	

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Signa	al word	: Danger				
Haza	Hazard statements		Highly flammable liquid and vapour. Causes serious eye irritation. May cause cancer. FD May damage fertility. May damage the unborn child. Causes damage to organs (Liver, Bone, Blood, Endo- system) through prolonged or repeated exposure. Very toxic to aquatic life with long lasting effects.			
Preca	Precautionary statements		read and follow all safety instructions before use. way from heat, hot surfaces, sparks, open flames ition sources. No smoking. breathe vapours. skin thoroughly after handling. eat, drink or smoke when using this product. elease to the environment. protective gloves/ protective clothing/ eye protec- tection.			
		ly all contami P305 + P351 for several m easy to do. C P318 IF expo	+ P353 IF ON SKIN (or hair): Take off immediate- nated clothing. Rinse affected areas with water. + P338 IF IN EYES: Rinse cautiously with water inutes. Remove contact lenses, if present and continue rinsing. psed or concerned, get medical advice. If eye irritation persists: Get medical help. spillage.			
		Storage: P405 Store lo	ocked up.			
		Disposal: P501 Dispos disposal plan	e of contents/ container to an approved waste t.			

Other hazards which do not result in classification

Vapours may form explosive mixture with air.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Components

Chemical name	CAS-No.	Concentration (%
		w/w)
Ethanol#	64-17-5	58.5
Estradiol	50-28-2	0.1
#: Voluntarily_disclosed substance		

#: Voluntarily-disclosed substance

4. FIRST AID MEASURES

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Gene	General advice		vice immediately	ccident or if you feel unwell, seek medical ad- /. s persist or in all cases of doubt seek medical		
lf inha	aled	:	If inhaled, remov			
In ca	In case of skin contact		of water. Remove contam Get medical atte Wash clothing b	ct, immediately flush skin with soap and plent inated clothing and shoes. ention. efore reuse.		
In cas	se of eye contact	 Thoroughly clean shoes before reuse. In case of contact, immediately flush eyes with plenty o for at least 15 minutes. If easy to do, remove contact lens, if worn. Get medical attention. 				
lf swa	allowed	:	If swallowed, DC Get medical atte	ONOT induce vomiting.		
	important symptoms iffects, both acute and ed	:	Causes serious May cause canc May damage fer	eye irritation.		
Prote	ction of first-aiders	 First Aid responders should pay attention to self-prot and use the recommended personal protective equip when the potential for exposure exists (see section 8 		ommended personal protective equipment		
Notes	s to physician	: Treat symptomatically and supportively.				
5. FIREFI	GHTING MEASURES					
Suita	ble extinguishing media	:	Water spray Alcohol-resistan Carbon dioxide Dry chemical			
Unsu media	itable extinguishing a	:	High volume wa	ter jet		
Spec fightir	ific hazards during fire- ng	:	fire. Flash back poss Vapours may for	id water stream as it may scatter and spread ible over considerable distance. rm explosive mixtures with air. nbustion products may be a hazard to health.		
Haza ucts	rdous combustion prod-	:	Carbon oxides			
Spec ods	ific extinguishing meth-	:	cumstances and Use water spray	ng measures that are appropriate to local cir- I the surrounding environment. I to cool unopened containers. aged containers from fire area if it is safe to de		
	ial protective equipment efighters	:	In the event of fi	re, wear self-contained breathing apparatus. otective equipment.		

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6. ACCIDI	ENTAL RELEASE MEAS	SUI	RES			
Personal precautions, protec- tive equipment and emer- gency procedures		:	Remove all sources of ignition. Ventilate the area. Use personal protective equipment. Follow safe handling advice (see section 7) and personal pro- tective equipment recommendations (see section 8).			
Envir	Environmental precautions :		Prevent spreadin barriers). Retain and dispos	akage or spillage if safe to do so. g over a wide area (e.g. by containment or oil se of contaminated wash water. should be advised if significant spillages		
Methods and materials for containment and cleaning up		:	Soak up with iner Suppress (knock spray jet. For large spills, p ment to keep mat be pumped, store Clean up remaini bent. Local or national posal of this mate employed in the o mine which regula Sections 13 and	Is should be used. t absorbent material. down) gases/vapours/mists with a water rovide dyking or other appropriate contain- terial from spreading. If dyked material can a recovered material in appropriate container. ng materials from spill with suitable absor- regulations may apply to releases and dis- erial, as well as those materials and items cleanup of releases. You will need to deter- ations are applicable. 15 of this SDS provide information regarding ational requirements.		

7. HANDLING AND STORAGE

Technical measures Local/Total ventilation	See Engineering measures under EXPOSUR CONTROLS/PERSONAL PROTECTION see If sufficient ventilation is unavailable, use with ventilation. Use explosion-proof electrical, ventilating and ment.	tion. n local exhaust
Advice on safe handling	Do not get on skin or clothing. Do not breathe vapours. Do not swallow. Do not get in eyes. Wash skin thoroughly after handling. Handle in accordance with good industrial hy practice, based on the results of the workplace sessment Non-sparking tools should be used. Keep container tightly closed. Keep away from heat, hot surfaces, sparks, of other ignition sources. No smoking. Take precautionary measures against static	e exposure as-

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Cond	itions for safe storage	Do not eat, drink Take care to pre environment. : Keep in properly Store locked up. Keep tightly clos Keep in a cool, v Store in accorda Keep away from : Do not store with Self-reactive sub Organic peroxide Oxidizing agents Flammable gase	e or smoke when using this product. vent spills, waste and minimize release to the labelled containers. ed. vell-ventilated place. nce with the particular national regulations. heat and sources of ignition. heat and sources of ignition. the following product types: ostances and mixtures es
		Pyrophoric liquic Pyrophoric solid Self-heating sub Poisonous gase Explosives	s stances and mixtures

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components	CAS-No.	Value type (Form of exposure)	Control parame- ters / Permissible concentration	Basis	
Ethanol	64-17-5	TWA	1,000 ppm 1,900 mg/m3	IN OEL	
		STEL	1,000 ppm	ACGIH	
Estradiol	50-28-2	TWA	0.05 µg/m3 (OEB 5)	Internal	
	Further inform	Further information: Skin			
		Wipe limit	0.5 µg/100 cm ²	Internal	

Components with workplace control parameters

Engineering measures Use closed processing systems or containment technologies 1 to control at source (e.g., glove boxes/isolators) and to prevent leakage of compounds into the workplace. All engineering controls should be implemented by facility design and operated in accordance with GMP principles to protect products, workers, and the environment. No open handling permitted. Totally enclosed processes and materials transport systems are required. Operations require the use of appropriate containment technology designed to prevent leakage of compounds into the workplace. Use explosion-proof electrical, ventilating and lighting equipment.

Personal protective equipment

Respiratory protection : If adequate local exhaust ventilation is not available or expo-

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	Iter type protection	ommended gu	nt demonstrates exposures outside the rec- lelines, use respiratory protection. culates and organic vapour type			
M	aterial	: Chemical-resi	tant gloves			
Re	emarks		ble gloving. Take note that the product is flam-			
Eye p	protection	: Wear safety g If the work en mists or aeros Wear a facesh	 mable, which may impact the selection of hand 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 Additional boo being perform suits) to avoid	or laboratory coat. ly garments should be used based upon the task ed (e.g., sleevelets, apron, gauntlets, disposable exposed skin surfaces. te degowning techniques to remove potentially clothing			
Hygie	ene measures	: If exposure to flushing syste place. When using d Wash contam The effective engineering co appropriate de industrial hygi	chemical is likely during typical use, provide eye ms and safety showers close to the working o not eat, drink or smoke. inated clothing before re-use. operation of a facility should include review of ontrols, proper personal protective equipment, egowning and decontamination procedures, ene monitoring, medical surveillance and the strative controls.			

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	gel
Colour	:	opalescent
Odour	:	aromatic
Odour 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	:	22 °C
		Method: closed cup
Evaporation rate	:	No data available

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	Florem	ability (aplid app)		Not applicable	
	гатта	ability (solid, gas)	:	Not applicable	
	Flamma	ability (liquids)	:	Ignitable (see flas	sh point)
		explosion limit / Upper bility limit	:	No data available	
		explosion limit / Lower bility limit	:	No data available	
	Vapour	pressure	:	No data available)
	Relative	e vapour density	:	No data available)
	Relative	e density	:	No data available)
	Density	,	:	No data available)
	Solubili Wat	ty(ies) er solubility	:	No data available	
	Partition octanol	n coefficient: n-	:	Not applicable	
		nition temperature	:	No data available)
	Decom	position temperature	:	No data available)
	Viscosi [.] Visc	ty osity, kinematic	:	No data available	9
	Explosi	ve properties	:	Not explosive	
	Oxidizir	ng properties	:	The substance or	r mixture is not classified as oxidizing.
	Molecu	lar weight	:	No data available	
	Particle	size	:	Not applicable	

10. STABILITY AND REACTIVITY

Reactivity Chemical stability Possibility of hazardous reac- tions	: :	Not classified as a reactivity hazard. Stable under normal conditions. Highly flammable liquid and vapour. Vapours may form explosive mixture with air. Can react with strong oxidizing agents.
Conditions to avoid Incompatible materials Hazardous decomposition products	:	Heat, flames and sparks. Oxidizing agents No hazardous decomposition products are known.

11. TOXICOLOGICAL INFORMATION

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Public ------ORGANON

ersion 0	Revision Date: 30.09.2023	-	OS Number: 608784-00006	Date of last issue: 04.04.2023 Date of first issue: 08.02.2022
Inform expos	nation on likely routes of sure	:	Inhalation Skin contact Ingestion Eye contact	
	e toxicity lassified based on availa	blo	information	
-	oonents:	bie	iniomation.	
Ethar				
	oral toxicity	:	LD50 (Rat): > 5,0 Method: OECD To	00 mg/kg est Guideline 401
Acute	inhalation toxicity	:	LC50 (Rat): 124.7 Exposure time: 4 Test atmosphere:	h
Estra	diol:			
Acute	oral toxicity	:	LD50 (Rat): > 2,0	00 mg/kg
	toxicity (other routes of histration)	:	LD50 (Rat): > 300 Application Route	
-	corrosion/irritation lassified based on availa	ble	information.	
Comp	oonents:			
Ethar	nol:			
Speci Metho Resul	bd	:	Rabbit OECD Test Guide No skin irritation	eline 404
	us eye damage/eye irri es serious eye irritation.	tati	on	
	oonents:			
Ethar				
Speci		:	Rabbit	
Metho Resul		:	OECD Test Guide Irritation to eyes,	eline 405 reversing within 21 days
Estra Resul		:	No eye irritation	
	iratory or skin sensitis	atio		
-	-	auc	' I I	
-	sensitisation lassified based on availa	h l-	information	
INUL CI	assineu baseu on avalla	ne		

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Respiratory sensitisation

Not classified based on available information.

Components:

Ethanol:

Test Type Exposure routes Species Result	:	Local lymph node assay (LLNA) Skin contact Mouse negative
Result	•	negative

Estradiol:

Exposure routes Species Assessment Result	: Skin contact
Species	: Guinea pig
Assessment	: Does not cause skin sensitisation.
Result	: negative

Germ cell mutagenicity

Not classified based on available information.

Components:

Ethanol:

Ethanol:		
Genotoxicity in vitro	:	Test Type: In vitro mammalian cell gene mutation test Result: negative
		Test Type: Bacterial reverse mutation assay (AMES) Result: negative
Genotoxicity in vivo	:	Test Type: Rodent dominant lethal test (germ cell) (in vivo) Species: Mouse Application Route: Ingestion Result: equivocal
Estradiol:		
Genotoxicity in vitro	:	Test Type: DNA damage and repair, unscheduled DNA syn- thesis in mammalian cells (in vitro) Test system: mammalian cells Result: positive
		Test Type: Chromosome aberration test in vitro Test system: mammalian cells Result: positive
		Test Type: Chromosomal aberration Test system: mammalian cells Result: positive
Genotoxicity in vivo	:	Test Type: Chromosomal aberration Species: Rat Cell type: Bone marrow Result: negative

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ersion 0	Revision Date: 30.09.2023	SDS Number: 10608784-0000	Date of last issue: 04.04.2023 Date of first issue: 08.02.2022
		Species: M	one marrow
	inogenicity cause cancer.		
-	ponents:		
Estra	idiol:		
Expo LOAE Resu	cation Route sure time EL	: Mouse : Ingestion : 24 Months : 100 µg/kg : positive : female repr	oductive organs
Expo LOAE Resu	cation Route sure time EL	: Rat : Subcutaned : 13 weeks : 20 mg/kg b : positive : Endocrine s	ody weight
Carci ment	nogenicity - Assess-	: Positive evi	dence from human epidemiological studies
May o Com	oductive toxicity damage fertility. May d ponents:	amage the unborn	child.
Ethai Effec	n ol: ts on fertility	Species: M	Route: Ingestion
Estra	idiol:		
Effec	ts on fertility	Species: Ra Application Fertility: LO	One-generation reproduction toxicity study at Route: Ingestion AEL: 0.5 mg/kg body weight ccts on fertility
		Species: Ra Duration of Fertility: LO	One-generation reproduction toxicity study at Single Treatment: 90 d AEL: 0.69 mg/kg body weight cts on fertility
		Test Type: Species: M	Two-generation study

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		Application R Fertility: LOA Result: Effec	EL: 0.1 mg/kg body weight
Effec ment	ts on foetal develop-	Species: Mor Application R Teratogenicit Symptoms: N	mbryo-foetal development use, female coute: Subcutaneous ry: LOAEL: 4 mg/kg body weight /alformations were observed. ve, Teratogenic effects
		Species: Rat Application R Teratogenicit Symptoms: F Result: positi	ne-generation reproduction toxicity study coute: Subcutaneous cy: LOAEL: 2.5 μg/kg body weight Reduced body weight ve, Embryotoxic effects and adverse effects on were detected.
		Species: Rat Application R Developmen Symptoms: E number of via Result: Embr	mbryo-foetal development Route: Subcutaneous tal Toxicity: LOAEL: 0.2 mg/kg body weight Early Resorptions / resorption rate, Reduced able fetuses, Reduced body weight yotoxic effects and adverse effects on the off- detected only at high maternally toxic doses
Repro sessr	oductive toxicity - As- ment	: May damage	fertility. May damage the unborn child.

STOT - single exposure

Not classified based on available information.

STOT - repeated exposure

Causes damage to organs (Liver, Bone, Blood, Endocrine system) through prolonged or repeated exposure.

Components:

Estradiol:

Target Organs Assessment	: Liver, Bone, Blood, Endocrine system
Assessment	: Causes damage to organs through prolonged or repeated
	exposure.

Repeated dose toxicity

Components:

Ethanol:

:	Rat
:	1,280 mg/kg
:	3,156 mg/kg
:	Ingestion
:	90 Days
	:

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Estradiol:

Species	: Rat
LÖAEL	: >= 0.17 mg/kg
Application Route	: Ingestion
Exposure time	: 90 d
Species LOAEL Application Route Exposure time Target Organs	: Mammary gland, Ovary, Uterus (including cervix), Liver, Bone, Endocrine system, Blood, Testis

Aspiration toxicity

Not classified based on available information.

Experience with human exposure

Components:

Estradiol:

Inhalation Skin contact Ingestion	:	Symptoms: tingling, Nose bleeding Symptoms: Skin irritation, Redness, pruritis Symptoms: Headache, Gastrointestinal disturbance, Dizzi- ness, Vomiting, Diarrhoea, water retention, liver function change, changes in libido, breast tenderness, menstrual irreg- ularities
---	---	--

12. ECOLOGICAL INFORMATION

Ecotoxicity

Components:

Ethanol:	

Ethanol.			
Toxicity to f	ish	:	LC50 (Pimephales promelas (fathead minnow)): > 1,000 mg/l Exposure time: 96 h
Toxicity to c aquatic inve	•	:	EC50 (Ceriodaphnia (water flea)): > 1,000 mg/l Exposure time: 48 h
Toxicity to a plants	algae/aquatic	:	ErC50 (Chlorella vulgaris (Fresh water algae)): 275 mg/l Exposure time: 72 h
			EC10 (Chlorella vulgaris (Fresh water algae)): 11.5 mg/l Exposure time: 72 h
Toxicity to n	nicroorganisms	:	EC50 (Pseudomonas putida): 6,500 mg/l Exposure time: 16 h
	aphnia and other ertebrates (Chron-	:	NOEC: 9.6 mg/l Exposure time: 9 d Species: Daphnia magna (Water flea)
Estradiol:			
Toxicity to f	ish	:	LC50 (Oryzias latipes (Japanese medaka)): 3.9 mg/l

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				Exposure time: 96	i h
		to daphnia and other invertebrates	:	EC50 (Daphnia m Exposure time: 48	agna (Water flea)): 2.7 mg/l h
	Toxicity plants	to algae/aquatic	:	NOEC (Pseudoki mg/l Exposure time: 72 Method: OECD Te	
				EC50 (Pseudokir mg/l Exposure time: 72 Method: OECD Te	
	Toxicity	to microorganisms	:	EC50: > 100 mg/l Exposure time: 3 l Test Type: Respir Method: OECD Te	ation inhibition
				NOEC: 100 mg/l Exposure time: 3 l Test Type: Respir Method: OECD Te	ation inhibition
	Toxicity icity)	to fish (Chronic tox-	:	NOEC: 0.000003 Exposure time: 16 Species: Oryzias I Method: OECD Te	0 d atipes (Japanese medaka)
		to daphnia and other invertebrates (Chron- ty)	:	NOEC: 0.2 mg/l Exposure time: 21 Species: Daphnia	d magna (Water flea)
	M-Facto toxicity)	or (Chronic aquatic	:	1,000	
	Persist	ence and degradabili	ty		
	Compo	nents:			
	Ethano			-	
	Biodegr	adability	:	Result: Readily bid Biodegradation: 8 Exposure time: 20	34 %
	Estradi	ol:			
	Biodegr	adability	:	Result: rapidly deg Biodegradation: 8 Exposure time: 24	4 %

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Bioac	cumulative potential		
Comp	oonents:		
	iol: on coefficient: n- ol/water	: log Pow: -0.35	
	diol: on coefficient: n- ol/water	: log Pow: 4.01	
Mobil	lity in soil		
<u>Comp</u>	oonents:		
		: log Koc: 3.81	
	adverse effects		

Disposal methods

Waste from residues	:	Do not dispose of waste into sewer. Dispose of in accordance with local regulations.
Contaminated packaging	:	Empty containers should be taken to an approved waste han- dling site for recycling or disposal. Empty containers retain residue and can be dangerous. Do not pressurize, cut, weld, braze, solder, drill, grind, or ex- pose such containers to heat, flame, sparks, or other sources of ignition. They may explode and cause injury and/or death. If not otherwise specified: Dispose of as unused product.

14. TRANSPORT INFORMATION

International Regulations

UNRTDG		
UN number	:	UN 1170
Proper shipping name	:	ETHANOL SOLUTION
Class	:	3
Packing group	:	II
Labels	:	3
Environmentally hazardous	:	yes
IATA-DGR		
UN/ID No.	:	UN 1170
Proper shipping name	:	Ethanol solution
Class	:	3

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Packing group Labels Packing instruction (cargo aircraft) Packing instruction (passen- ger aircraft)		: : :	II Flammable Liquic 364 353	ls
UN n Prope Class Pack Labe EmS	IMDG-Code UN number Proper shipping name Class Packing group Labels EmS Code Marine pollutant		UN 1170 ETHANOL SOLU (Estradiol) 3 II 3 F-E, S-D yes	TION

Transport in bulk according to IMO instruments

Not applicable for product as supplied.

Special precautions for user

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

15. REGULATORY INFORMATION

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

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

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

16. OTHER INFORMATION

Revision Date	:	30.09.2023
Further information Sources of key data used to compile the Safety Data Sheet	:	Internal technical data, data from raw material SDSs, OECD eChem Portal search results and European Chemicals Agen- cy, http://echa.europa.eu/

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

Date format : dd.mm.yyyy

Full text of other abbreviations

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ACGI IN OE			rreshold Limit Values (TLV) le levels of certain chemical substances in nt.
	H / STEL	: Short-term expo	sure limit
	EL / TWA	: Time-Weighted	Average Concentration (TWA) (8 hrs.)

AIIC - Australian Inventory of Industrial Chemicals; ANTT - National Agency for Transport by Land of Brazil; ASTM - American Society for the Testing of Materials; bw - Body weight; CMR -Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation: DSL - Domestic Substances List (Canada): ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China: IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; Nch - Chilean Norm; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NOM - Official Mexican Norm; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TDG - Transportation of Dangerous Goods; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative; WHMIS - Workplace Hazardous Materials Information System

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and shall not be considered a warranty or quality specification of any type. The information provided relates only to the specific material identified at the top of this SDS and may not be valid when the SDS material is used in combination with any other materials or in any process, unless specified in the text. Material users should review the information and recommendations in the specific context of their intended manner of handling, use, processing and storage, including an assessment of the appropriateness of the SDS material in the user's end product, if applicable.

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