- RU



OKS 4220

Version	Revision Date:	Date of last issue: 14.06.2023	Print Date:
2.1	20.12.2023	Date of first issue: 11.07.2013	20.12.2023

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

Product name : OKS 4220

Manufacturer or supplier's details								
Company name of supplier	:	OKS Spezialschmierstoffe GmbH Ganghoferstr. 47 D-82216 Maisach-Gernlinden Tel.: +49 8142 3051 500 Fax.: +49 8142 3051 599 info@oks-germany.com						
E-mail address of person responsible for the SDS Emergency telephone	:	mcm@oks-germany.com +7 495 628 1687						
number	•	+49 8142 3051 517						
Recommended use of the ch	nem	nical and restrictions on use						
Recommended use	:	Lubricant						
Restrictions on use	:	Restricted to professional users.						

2. HAZARDS IDENTIFICATION

GHS Classification (According to GOST 32423, GOST 32424 and GOST 32425) Not a hazardous substance or mixture.

GHS-Labelling (According to GOST 31340)

Not a hazardous substance or mixture.

Other hazards which do not result in classification

None known.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Pure substance/mixture	:	Mixture
Chemical nature	:	perfluorinated polyether oil PTFE

Components

Chemical name	Concentration	Occupational Exposure	CAS-No.	EC-No.
	(% w/w)	Limits		





Version 2.1	Revision Date: 20.12.2023	Date of last issue: 14.06.2023 Date of first issue: 11.07.2013		Print Da 20.12.20	
		MAC value	Hazard		

		mg/m3 / TSEL value	Class		
Ethylene, tetrafluoro-, polymer	>= 20 - < 30	MPC-TWA: 10 mg/m3 Data Source: RU OEL	f, 4	9002-84-0	618-337-2
disodium sebacate	>= 1 - < 2,5	No data available		17265-14-4	241-300-3

4. FIRST AID MEASURES

If inhaled	:	Remove person to fresh air. If signs/symptoms continue, get medical attention. Keep patient warm and at rest. If breathing is irregular or stopped, administer artificial respiration.
In case of skin contact	:	Remove contaminated clothing. If irritation develops, get medical attention. Wash off with soap and water.
In case of eye contact	:	Rinse immediately with plenty of water, also under the eyelids, for at least 10 minutes. If eye irritation persists, consult a specialist.
If swallowed	:	Move the victim to fresh air. Do not induce vomiting without medical advice.
Most important symptoms and effects, both acute and delayed	:	None known. No symptoms known or expected.
Notes to physician	:	Treat symptomatically.

5. FIREFIGHTING MEASURES

Flammable properties		
Flash point Ignition temperature	:	Not applicable No data available
Upper explosion limit / Upper flammability limit	:	No data available
Lower explosion limit / Lower	:	No data available



- RU



OKS 4220

Vers 2.1	sion	Revision Date: 20.12.2023		e of last issue: 14.06.2023 e of first issue: 11.07.2013	Print Date: 20.12.2023
	flamma	ability limit			
	Flamm	ability (solid, gas)	:	Will not burn	
	Suitab	le extinguishing media	:	Use water spray, alcohol-resistant foam, carbon dioxide.	dry chemical or
	Unsuita media	able extinguishing	:	High volume water jet	
	Hazaro produc	dous combustion ts	:	Carbon oxides Nitrogen oxides (NOx) Halogenated compounds Metal oxides	
	Furthe	r information	:	Standard procedure for chemical fires.	
		Il protective equipment fighters	t :	In the event of fire, wear self-contained by Use personal protective equipment. Exposure to decomposition products may health.	

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures	:	Evacuate personnel to safe areas. Use the indicated respiratory protection if the occupational exposure limit is exceeded and/or in case of product release (dust). Avoid breathing dust. Refer to protective measures listed in sections 7 and 8.
Environmental precautions	:	Try to prevent the material from entering drains or water courses. Local authorities should be advised if significant spillages cannot be contained.
Methods and materials for containment and cleaning up	:	Clean up promptly by sweeping or vacuum. Keep in suitable, closed containers for disposal.

7. HANDLING AND STORAGE

Advice on safe handling	:	For personal protection see section 8. Smoking, eating and drinking should be prohibited in the application area. Wash hands and face before breaks and immediately after handling the product.
Conditions for safe storage	:	Store in original container.





Version Revision Date: Date of last issue: 14.06.2023 Print Date: 2.1 20.12.2023 Date of first issue: 11.07.2013 20.12.2023	Version 2.1	Revision Date: 20.12.2023	Date of last issue: 14.06.2023 Date of first issue: 11.07.2013	Print Date: 20.12.2023
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Keep container closed when not in use. Keep in a dry, cool and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Store in accordance with the particular national regulations. Keep in properly labelled containers.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

				• • • • •		
Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Data Source		
Ethylene, tetrafluoro-, polymer	9002-84-0	MPC-TWA (aerosol)	10 mg/m3	RU OEL (2021-02-03)		
		Further information: aerosols of predominantly fibrogenic action, Class 4 - Low hazard				
Engineering measures :	local exhaust involved in ha vents or an ex	It is recommended that all dust control equipment such as local exhaust ventilation and material transport systems involved in handling of this product contain explosion relief vents or an explosion suppression system or an oxygen deficient environment.				
Personal protective equipmen	t					
Respiratory protection :	Not required;	Not required; except in case of aerosol formation.				
Filter type :	Filter type A-F)				
Hand protection Material : Break through time : Protective index :	Nitrile rubber > 10 min Class 1	> 10 min				
Remarks :	break through material, the t	For prolonged or repeated contact use protective gloves. The break through time depends amongst other things on the material, the thickness and the type of glove and therefore has to be measured for each case.				
Eye protection :	Safety glasses	Safety glasses with side-shields				
Skin and body protection :	concentration	Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place.				
Protective measures :		tration and amou	ent must be selected unt of the dangerous			

Components with workplace control parameters





/ersion 2.1	Revision Date: 20.12.2023		of last issue: 14.06.2023 of first issue: 11.07.2013	Print Date: 20.12.2023
Hygie	ene measures	:	Wash face, hands and any expose handling.	sed skin thoroughly after
. PHYSIC	CAL AND CHEMICAL F	PROP	ERTIES	
Арре	earance	:	solid	
Color	ur	:	white	
Odou	ır	:	odourless	
Odou	ur Threshold	:	No data available	
pН		:	Not applicable substance/mixture is non-soluble	e (in water)
		:	Decomposes without melting.	
Boilir	ng point/boiling range	•	No data available	
Flash	n point	:	Not applicable	
Evap	oration rate	:	No data available	
Flam	mability (solid, gas)	:	Will not burn	
Self-i	ignition	:	No data available	
	er explosion limit / Upper nability limit	· :	No data available	
	er explosion limit / Lower nability limit	· :	No data available	
Vapo	our pressure	:	< 0,001 hPa (20 °C)	
Relat	tive vapour density	:	No data available	
Relat	tive density	:	1,92 (20 °C) Reference substance: Water The value is calculated	



- RU



OKS 4220

Versi 2.1	on	Revision Date: 20.12.2023		of last issue: 14.06.2023 of first issue: 11.07.2013	Print Date: 20.12.2023
I	Density	y	:	1,92 g/cm3 (20 °C)	
I	Bulk de	ensity	:	No data available	
:		ity(ies) ter solubility	:	insoluble	
	Sol	ubility in other solvents	; :	No data available	
		n coefficient: n- I/water	:	No data available	
	Auto-ig	nition temperature	:	No data available	
I	Decom	position temperature	:	> 280 °C	
,	Viscos Visc	ity cosity, dynamic	:	No data available	
	Viso	cosity, kinematic	:	Not applicable	
I	Explos	ive properties	:	Not explosive	
(Oxidizi	ng properties	:	No data available	
;	Sublim	ation point	:	No data available	
I	Metal o	corrosion rate	:	Not corrosive to metals	

10. STABILITY AND REACTIVITY

Reactivity	:	No hazards to be specially mentioned.
Chemical stability	:	Stable under normal conditions.
Possibility of hazardous reactions	:	No dangerous reaction known under conditions of normal use.
Conditions to avoid	:	No conditions to be specially mentioned.
Incompatible materials	:	No materials to be especially mentioned.
Hazardous decomposition products	:	>280 °C danger of forming toxic fluorine-containing pyrolysis products.



- RU



sion	Revision Date: 20.12.2023	Date of last issue: 14.06.2023 Date of first issue: 11.07.2013	Print Date: 20.12.2023		
TOXICOLOGICAL INFORMATION					
IONIC					
Acute	e toxicity				
Prod		. Domosko: This information is			
Acute	e oral toxicity	: Remarks: This information is			
Acute	inhalation toxicity	: Remarks: This information is	s not available.		
Acute	e dermal toxicity	: Remarks: This information is	s not available.		
<u>Com</u>	ponents:				
-	ene, tetrafluoro-, po	lymer:			
Acute	e oral toxicity	: LD50 (Rat): > 5.000 mg/kg Method: OECD Test Guideli	ne 401		
	lium sebacate:				
Acute	e oral toxicity	: LD50 (Rat): > 5.000 mg/kg Method: OECD Test Guideli GLP: no	ne 401		
Acute	e dermal toxicity	: LD50 (Rabbit): > 2.000 mg/k Method: OECD Test Guideli	g ne 402		
		GLP: yes Assessment: The substance toxicity	or mixture has no acute derma		
Skin	corrosion/irritation				
<u>Prod</u>					
Rema	arks	: This information is not availa	ble.		
Com	ponents:				
-	ene, tetrafluoro-, po	•			
Speci	ies ssment	: Rabbit : No skin irritation			
Resu		: No skin irritation			



- RU



OKS 422				
ersion .1	Revision Date: 20.12.2023		last issue: 14.06.2023 first issue: 11.07.2013	Print Date: 20.12.2023
diaa	lium sebacate:			
		. Del	L L 14	
Spec	ssment	: Ral	skin irritation	
Meth			CD Test Guideline 404	
Resu		-	skin irritation	
GLP		: no		
Serio	ous eye damage/eye	irritation		
<u>Prod</u>	uct:			
Rema	arks	: Thi	s information is not available.	
<u>Com</u>	ponents:			
Ethyl	ene, tetrafluoro-, po	lymer:		
Spec			bbit	
Resu			eye irritation	
Asse	ssment	: NO	eye irritation	
disod	lium sebacate:			
Spec			bbit	
Resu			ating to eyes.	
Asse: Meth	ssment		ating to eyes. CD Test Guideline 437	
GLP	Ju	: yes		
Posn	iratory or skin sens	itication		
-	-	nisation		
<u>Prod</u> Rema		. Th:	s information is not available.	
Rema	arks	: Thi	s information is not available.	
Com	ponents:			
Ethyl	ene, tetrafluoro-, po	lymer:		
Asse	ssment		I not cause sensitisation on labo	
Resu	lt	: Did	l not cause sensitisation on labo	pratory animals.
disod	lium sebacate:			
Spec		· Gu	inea pig	

Species	:	Guinea pig
Assessment	:	Did not cause sensitisation on laboratory animals.
Result	:	Did not cause sensitisation on laboratory animals.



- RU



UN3 424	20			
Version 2.1	Revision Date: 20.12.2023		e of last issue: 14.06.2023 e of first issue: 11.07.2013	Print Date: 20.12.2023
Germ	cell mutagenicity			
<u>Prod</u> Geno	<u>uct:</u> toxicity in vitro	:	Remarks: No data available	
Geno	toxicity in vivo	:	Remarks: No data available	
-	ponents:			
Germ	lium sebacate: cell mutagenicity - ssment	:	Tests on bacterial or mammalian or mutagenic effects.	cell cultures did not show
	nogenicity			
<u>Prod</u> Rema		:	No data available	
Com	ponents:			
Carci	ene, tetrafluoro-, po nogenicity - ssment	lymer: :	Not classifiable as a human carcir	nogen.
Repr	oductive toxicity			
<u>Prod</u> Effect	uct: ts on fertility	:	Remarks: No data available	
	ts on foetal opment	:	Remarks: No data available	
<u>Com</u>	ponents:			
Repro	lium sebacate: oductive toxicity - ssment	:	 Fertility - No toxicity to reproduction Teratogenicity - No effects on or via lactation 	



- RU



KS 422	20			
ersion 1	Revision Date: 20.12.2023		f last issue: 14.06.2023 f first issue: 11.07.2013	Print Date: 20.12.2023
STO	Γ - single exposure			
Prod	uct:			
Rema		: N	o data available	
Com	ponents:			
	ene, tetrafluoro-, po	olvmer:		
-	ssment	-	he substance or mixture is not	classified as specific target
		01	gan toxicant, single exposure.	
STO	F - repeated exposu	re		
Prod	uct:			
Rema	arks	: N	o data available	
Com	ponents:			
Ethyl	ene, tetrafluoro-, po	olymer:		
Asses	ssment		he substance or mixture is not	
		0i	gan toxicant, repeated exposu	ie.
Repe	ated dose toxicity			
Prod	uct:			
Rema	arks	: TI	his information is not available.	
Aspii	ration toxicity			
Prod	uct:			
This i	nformation is not ava	ailable.		
<u>Com</u>	ponents:			
Ethyl	ene, tetrafluoro-, po	olymer:		
-	spiration toxicity class	-		
disod	lium sebacate:			
No as	spiration toxicity class	sification		
			40/40	a brand of
			10 / 16	



- RU



OKS 4220

Version 2.1	Revision Date: 20.12.2023	Date of last issue: 14.06.2023 Date of first issue: 11.07.2013	Print Date: 20.12.2023
Furth	ner information		
Prod	uct:		
Rema	arks	: Information given is based on data the toxicology of similar products.	

12. ECOLOGICAL INFORMATION

Ecotoxicity		
<u>Product:</u> Toxicity to fish	:	Remarks: No data available
Toxicity to daphnia and other aquatic invertebrates	:	Remarks: No data available
Toxicity to algae/aquatic plants	:	Remarks: No data available
Toxicity to microorganisms	:	Remarks: No data available
Components:		
disodium sebacate: Toxicity to fish	:	LC50 (Danio rerio (zebra fish)): > 100 mg/l Exposure time: 96 h Test Type: semi-static test Method: OECD Test Guideline 203 GLP: yes
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): > 100 mg/l Exposure time: 48 h Test Type: semi-static test Method: OECD Test Guideline 202 GLP: yes
Toxicity to algae/aquatic plants	:	EL50 (Skeletonema costatum (marine diatom)): 38,7 mg/l Exposure time: 72 h Test Type: static test Method: ISO 10253 GLP: yes



- RU



ersion 1	Revision Date: 20.12.2023		e of last issue: 14.06.2023 e of first issue: 11.07.2013	Print Date: 20.12.2023
Persi	stence and degrada	bility		
Prod	uct:			
Biode	egradability	:	Remarks: No data available	
	co-chemical vability	:	Remarks: No data available	
<u>Com</u>	ponents:			
disod	lium sebacate:			
Biode	gradability	:	Result: Biodegradable Biodegradation: 89 % Exposure time: 28 d	
Bioad	ccumulative potentia	ıl		
Prod	uct:			
Bioac	cumulation	cumulation : Remarks: This mixture contains no substance consid be persistent, bioaccumulating and toxic (PBT). This mixture contains no substance considered to be persistent and very bioaccumulating (vPvB).		
<u>Com</u>	ponents:			
disod	lium sebacate:			
	ion coefficient: n- ol/water	:	log Pow: -4,9 (20 °C) pH: 7,8	
Mobi	lity in soil			
Prod	uct:			
Mobil	ity	:	Remarks: No data available	
	bution among onmental compartmer	: nts	Remarks: No data available	
Othe	r adverse effects			
Prod	uct:			
۸ ddit:	ional ecological	:	No information on ecology is availa	abla





Version Revision Date: Date of last issue: 14.06.2023 Print Date: 2.1 20.12.2023 Date of first issue: 11.07.2013 20.12.2023	Version 2.1	Revision Date: 20.12.2023	Date of last issue: 14.06.2023 Date of first issue: 11.07.2013	Print Date: 20.12.2023
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Components:

Ethylene, tetrafluoro-, polymer:

Results of PBT and vPvB : Non-classified vPvB substance Non-classified PBT substance assessment

13. DISPOSAL CONSIDERATIONS

Disposal methods		
Waste from residues	e product should not be allowed to enter d urses or the soil.	rains, water
Contaminated packaging	ackaging that is not properly emptied must e unused product. spose of waste product or used containers cal regulations.	
	e following Waste Codes are only suggest	ions:
Waste Code	used product 02 06*, synthetic engine, gear and lubrica	ting oils
	cleaned packagings 01 10*, packaging containing residues of hazardous substances	or contaminated

14. TRANSPORT INFORMATION

ADR

IATA-DGR

Not regulated as a dangerous good

UNRTDG Not regulated as a dangerous good

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.

Special precautions for user

Not applicable



- RU



OKS 4220

Version	Revision Date:	Date of last issue: 14.06.2023	Print Date:
2.1	20.12.2023	Date of first issue: 11.07.2013	20.12.2023

15. REGULATORY INFORMATION

National regulatory information

Federal Law of 21.07.1997 No. 116-FZ (amended on 11.06.2021) "On industrial safety of hazardous production facilities".

Federal Law of 24.06.1998 No. 89-FZ (amended on 02.07.2021) "On production and consumption waste".

Federal Law of 30.03.1999 No. 52-FZ (amended on 02.07.2021) "On the Sanitary and Epidemiological Well-Being of the Population" (amended and supplemented, entered into force on 31.10.2021).

Federal Law of 04.05.1999 No. 96-FZ "On the protection of atmospheric air" (as amended on December 8, 2020).

Federal Law of 27.12.2002 No. 184-FZ (amended on 02.07.2021) "On Technical Regulation" (amended and supplemented, entered into force on 01.09.2021).

Federal Law of 10.01.2002 No. 7-FZ (amended on 02.07.2021) "On environmental protection". Federal Law of 22.07.2008 No. 123-FZ "Technical Regulations on Fire Safety Requirements" TECHNICAL REGULATIONS OF THE CUSTOMS UNION TR CU 030/2012 On requirements for lubricants, oils and special fluids (amended on 03.03.2017).

International Regulations

Montreal Protocol	:	Not applicable
Rotterdam Convention (Prior Informed Consent)	:	Not applicable
Stockholm Convention (Persistent Organic Pollutants)	:	Not applicable

16. OTHER INFORMATION

List of data sources used in the preparation of the Safety Data Sheet

GOST 30333-2007. Interstate standard. Safety data sheet for chemical products. Primary requirements.

GOST 12.1.004-91 System of labor safety standards (SSBT). Fire safety. General requirements. GOST 12.1.007-76 Occupational safety standards system. Noxious substances. Classification and general safety requirements

GOST 12.1.044-89 SSBT. Fire and explosion hazard of substances and materials. Nomenclature of indicators and methods for their determination.

GOST 12.4.021 System of labor safety standards (SSBT). Ventilation systems. General requirements.

GOST 12.4.137-2001 Special footwear with leather uppers for protection against oil, oil products, acids, alkalis, non-toxic and explosive dust. Technical conditions.

GOST 12.4.252-2013 System of labor safety standards (SSBT). Means of individual protection of hands. Gloves. General technical requirements. Test methods.

GOST 14192-96. Interstate standard. Cargo marking. Minsk, 1998.

GOST 19433-88 Dangerous goods. Classification and labeling.



- RU



OKS 4220

Version	Revision Date:	Date of last issue: 14.06.2023	Print Date:
2.1	20.12.2023	Date of first issue: 11.07.2013	20.12.2023

GOST 31340-2013. Interstate standard. Precautionary labeling of chemical products. General requirements.

GOST 32419-2013 Classification of the hazard of chemical products. General requirements. GOST 32421-2013 Classification of chemical products, the hazard of which is due to physical and chemical properties. Test methods for explosive chemical products.

GOST 32423-2013 Hazard classification of mixed chemical products by their effects on the body. GOST 32424-2013 Classification of the hazard of chemical products by their impact on the environment. Basic provisions.

GOST 32425-2013 Hazard classification of mixed chemical products in terms of environmental impact.

GOST R 53264-2019 Fire fighting equipment. Special protective clothing for firefighters. General technical requirements. Test methods.

GOST R 53265-2019 Fire fighting equipment. Personal protective equipment for the feet of the firefighter. General technical requirements. Test methods.

GOST R 53268-2009 Fire fighting equipment. Fire rescue belts. General technical requirements. Test methods.

GOST R 53269-2019 Fire fighting equipment. Firefighters helmets. General technical requirements. Test methods.

SanPiN 1.2.2353-08 "Carcinogenic factors and basic requirements for the prevention of carcinogenic hazard".

SanPiN 1.2.3685-21 "Hygienic standards and requirements for ensuring the safety and (or) harmlessness to humans of environmental factors" dated 28.01.2021.

SanPiN 2.1.3684-21 "Sanitary and epidemiological requirements for the maintenance of the territories of urban and rural settlements, for water bodies, drinking water and drinking water supply, atmospheric air, soils, living quarters, the operation of industrial, public premises, the organization and implementation of sanitary and anti-epidemic (preventive) measures".

SanPiN 2.2.0.555-96. 2.2. Labor hygiene. Hygienic requirements for working conditions for women. Sanitary rules and regulations.

Carriage of dangerous goods, International maritime dangerous goods (IMDG) code.

Water quality standards for fishery water bodies, including standards for maximum permissible concentrations of harmful substances in the waters of fishery water bodies (approved by order of the Ministry of Agriculture of Russia dated December 13, 2016 No. 552).

Regulations for the carriage of dangerous goods (Appendix 1 and 2) to the Agreement on International Goods Transport by Rail (SMGS), 2009.

Agreement on International Goods Transport by Rail (SMGS).

UN Recommendations on the Transport of Dangerous Goods. Typical rules. Twenty-second revised edition. United Nations, New York and Geneva, 2021.

Montreal Protocol (Ozone Depleting Substances)

Stockholm Convention (Persistent Organic Pollutants)

Full text of other abbreviations

Aquatic Acute		Short-term (acute) aquatic hazard
Eye Irrit.		Eye irritation
RU OEL		SanPiN 1.2.3685-21 Table 2.1, Table 2.8, Table 2.16 & Table 2.17 Maximum permissible concentrations (MPC) in the air of the working area
RU OEL / MPC-TWA	:	Maximum Permissible Concentration - Time Weighted Average

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CMR - Carcinogen, Mutagen or Reproductive Toxicant;



- RU



OKS 4220

Version	Revision Date:	Date of last issue: 14.06.2023	Print Date:
2.1	20.12.2023	Date of first issue: 11.07.2013	20.12.2023

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; 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; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; 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; RID Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; 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

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