

UniPar FG-1000 Version Date of last issue: 10/19/2021 Print Date: **Revision Date:** Date of first issue: 10/19/2021 12/21/2022 2.0 12/20/2022 **SECTION 1. IDENTIFICATION** Product name : UniPar FG-1000 Article-No. 340427 • Manufacturer or supplier's details Company name of supplier Klüber Lubrication NA LP : 9010 County Road 2120 Tyler, Texas 75707 USA Phone: +1 903 534-8021 Fax: +1 903 581-4376 32 Industrial Drive Londonderry, NH 03053 USA Phone: +1 603 647-4104 Fax: +1 603 647-4106 E-mail address of person : mcm@us.kluber.com responsible for the SDS Material Compliance Management Emergency telephone : +1-517-545-7070 NCEC number Recommended use of the chemical and restrictions on use Recommended use Lubricating oil :

:

SECTION 2. HAZARDS IDENTIFICATION

Restrictions on use

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

Restricted to professional users.

Reproductive toxicity	: Category 2	
GHS label elements Hazard pictograms		
Signal word	: Warning	



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Haza	rd statements	: Suspected of damaging fertility.	
Preca	utionary statements	 Prevention: Obtain special instructions before Do not handle until all safety prec understood. Wear protective gloves/ protective protection. 	autions have been read and
		Response: IF exposed or concerned: Get me	edical advice/ attention.
		Storage: Store locked up.	
		Disposal:	
		Dispose of contents/ container to plant.	an approved waste disposal
Otho	r hazarde		

Other hazards

None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture	: Mixture
Chemical nature	: Mineral oil. Synthetic hydrocarbon oil

Components

CAS-No.	Concentration (% w/w)
8042-47-5	Trade secret (>= 60 - < 80)
68411-46-1	Trade secret (>= 0.1 - < 1)
	8042-47-5

Actual concentration is withheld as a trade secret

SECTION 4. FIRST AID MEASURES

If inhaled	:	Obtain medical attention. 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





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			medical attention. In case of contact, immediately flus	sh skin with plenty of water.
In ca	se of eye contact	:	Rinse immediately with plenty of wa for at least 10 minutes. If eye irritation persists, consult a s	
lf swa	allowed	:	Move the victim to fresh air. Do NOT induce vomiting. Rinse mouth with water.	
	important symptoms effects, both acute and /ed	:	No information available. None known.	
Note	s to physician	:	No information available.	

SECTION 5. FIREFIGHTING MEASURES

Suitable extinguishing media	:	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Unsuitable extinguishing media	:	High volume water jet
Hazardous combustion products	:	Carbon oxides Nitrogen oxides (NOx)
Further information	:	Standard procedure for chemical fires.
Special protective equipment for firefighters	:	In the event of fire, wear self-contained breathing apparatus. Use personal protective equipment. Exposure to decomposition products may be a hazard to health.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures	:	Evacuate personnel to safe areas. Use personal protective equipment. Refer to protective measures listed in sections 7 and 8.
Environmental precautions	:	Try to prevent the material from entering drains or water courses. Prevent further leakage or spillage if safe to do so. Local authorities should be advised if significant spillages cannot be contained.
Methods and materials for	:	Contain spillage, and then collect with non-combustible





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containment and cleaning up			absorbent material, (e.g. sand, e. vermiculite) and place in containe local / national regulations (see s	er for disposal according to
SECTION	7. HANDLING AND S	STOR	AGE	
Advic	e on safe handling	:	For personal protection see secti Smoking, eating and drinking sho application area. Wash hands and face before bre handling the product. Do not get in eyes or mouth or or Do not get on skin or clothing.	ould be prohibited in the aks and immediately after

Conditions for safe storage	:	Store in original container. 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.
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SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

:

Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
White mineral oil (petroleum)	8042-47-5	TWA (Inhalable particulate matter)	5 mg/m3	ACGIH (2013-03-01)
		TWA (Mist)	5 mg/m3	OSHA Z-1 (2018-03-15)
		TWA (Mist)	5 mg/m3	OSHA P0 (1989-01-19)
		TWA (Mist)	5 mg/m3	NIOSH REL (2019-10-04)
		ST (Mist)	10 mg/m3	NIOSH REL (2019-10-04)

Engineering measures

Handle only in a place equipped with local exhaust (or other appropriate exhaust).

Personal protective equipment

Respiratory protection

: Not required; except in case of aerosol formation.





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Fil	lter type	:	Filter type A-P	
Ma Br	protection aterial eak through time otective index	:	Nitrile rubber > 10 min Class 1	
Re	emarks	:	Wear protective gloves. The break thro amongst other things on the material, the type of glove and therefore has to be m case.	ne thickness and the
Eye p	protection	:	Safety glasses with side-shields	
Skin a	and body protection	:	Choose body protection in relation to its concentration and amount of dangerous the specific work-place.	
Prote	ctive measures	:	The type of protective equipment must to the concentration and amount of the at the specific workplace.	
Hygie	ene measures	:	Wash face, hands and any exposed sk handling.	in thoroughly after

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	liquid
Colour	:	yellow
Odour	:	hydrocarbon-like, mild
Odour Threshold	:	No data available
рН	:	Not applicable
		Na data available
Melting point/range	:	No data available
Boiling point/boiling range	:	No data available
Flash point	:	<= 365 °F / 185 °C





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			Method: open cup >= 365 °F / 185 °C	
E	vaporation rate	:	No data available	
F	lammability (solid, gas)	:	Not applicable	
S	elf-ignition	:	No data available	
	pper explosion limit / Uppe ammability limit	r:	No data available	
	ower explosion limit / Lowe ammability limit	r:	No data available	
V	apour pressure	:	< 0.001 hPa (68 °F / 20 °C)	
R	elative vapour density	:	No data available	
R	elative density	:	0.874 (68 °F / 20 °C) Reference substance: Water The value is calculated	
В	ulk density	:	No data available	
S	olubility(ies) Water solubility	:	insoluble	
	Solubility in other solvents	s :	No data available	
	artition coefficient: n- ctanol/water	:	No data available	
А	uto-ignition temperature	:	No data available	
D	ecomposition temperature	:	No data available	
V	iscosity Viscosity, dynamic	:	No data available	
	Viscosity, kinematic	:	1,000 mm2/s (104 °F / 40 °C)	
E	xplosive properties	:	Not explosive	
0	xidizing properties	:	No data available	
S	ublimation point	:	No data available	





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SECTION	I 10. STABILITY ANI		

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	:	No decomposition if stored and applied as directed.

SECTION 11. TOXICOLOGICAL INFORMATION

Acute toxicity

Product: Acute oral toxicity	Remarks: This information is not available.
Acute inhalation toxicity :	Remarks: This information is not available.
Acute dermal toxicity :	Remarks: This information is not available.
Components:	
White mineral oil (petroleum):	
Acute oral toxicity :	LD50 (Rat): > 5,000 mg/kg Method: OECD Test Guideline 401 GLP: yes
Acute inhalation toxicity :	LC50 (Rat): > 5 mg/l Exposure time: 4 h Test atmosphere: dust/mist Method: OECD Test Guideline 403 GLP: yes Assessment: The substance or mixture has no acute inhalation toxicity
Acute dermal toxicity :	LD50 (Rabbit): > 2,000 mg/kg Method: OECD Test Guideline 402 GLP: yes Assessment: The substance or mixture has no acute dermal toxicity

Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene:





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Acute	e oral toxicity	:	LD50 (Rat): > 5,000 mg/kg Method: OECD Test Guideline 401	
Acute	e dermal toxicity	:	LD50 (Rat): > 2,000 mg/kg Method: OECD Test Guideline 402 Assessment: The substance or mixtu toxicity	ire has no acute derma
Skin	corrosion/irritation			
Prod	uct:			
Rem	arks	:	This information is not available.	
<u>Com</u>	ponents:			
Whit	e mineral oil (petrol	eum):		
Spec	ies	:	Rabbit	
	ssment	:	No skin irritation	
Meth		:	OECD Test Guideline 404	
Resu	llt	:	No skin irritation	
GLP		•	yes	
Benz	enamine, N-phenyl-	, react	ion products with 2,4,4-trimethylper	ntene:
Spec	ies	:	Rabbit	
	ssment	:	No skin irritation	
Meth	od	:	OECD Test Guideline 404	
Resu	llt	:	No skin irritation	
Serio	ous eye damage/eye	irritati	on	
Prod	uct:			
Rem	arks	:	This information is not available.	
-				
<u>Com</u>	ponents:			
	<u>ponents:</u> e mineral oil (petrol	eum):		
	e mineral oil (petrol	eum): :	Rabbit	
Whit Spec Resu	e mineral oil (petrol e ies Ilt	eum): : :	No eye irritation	
Whit Spec Resu Asse	e mineral oil (petrol e ies ilt ssment	eum): : :	No eye irritation No eye irritation	
Whit Spec Resu Asse Meth	e mineral oil (petrol e ies ilt ssment	eum): : : :	No eye irritation No eye irritation OECD Test Guideline 405	
Whit Spec Resu Asse	e mineral oil (petrol e ies ilt ssment	eum): : : : :	No eye irritation No eye irritation	
White Spec Resu Asse Meth GLP	e mineral oil (petrol e ies ilt ssment od	:	No eye irritation No eye irritation OECD Test Guideline 405	ntene:
Whit Spec Resu Asse Meth GLP	e mineral oil (petrolo ies ilt ssment od zenamine, N-phenyl-	:	No eye irritation No eye irritation OECD Test Guideline 405 yes	ntene:
White Spec Resu Asse Meth GLP	e mineral oil (petrolo ies ilt ssment od zenamine, N-phenyl - ies	:	No eye irritation No eye irritation OECD Test Guideline 405 yes ion products with 2,4,4-trimethylper	ntene:
Whit Spec Resu Asse Meth GLP Benz Spec Resu	e mineral oil (petrolo ies ilt ssment od zenamine, N-phenyl - ies	, react	No eye irritation No eye irritation OECD Test Guideline 405 yes ion products with 2,4,4-trimethylper Rabbit	ntene:





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Resp	iratory or skin sensi	sation	
Prod	uct:		
Rema		: This information is not availa	able.
<u>Com</u>	ponents:		
White	e mineral oil (petrole	m):	
Test ⁻ Speci Asses Metho Resul GLP	ies ssment od	 Maximisation Test Guinea pig Does not cause skin sensitis OECD Test Guideline 406 Does not cause skin sensitis yes 	
Benz	enamine, N-phenyl-,	eaction products with 2,4,4-trim	ethylpentene:
Speci Asses Metho Resul	ssment od	 Guinea pig Did not cause sensitisation of OECD Test Guideline 406 Did not cause sensitisation of 	-
Germ	cell mutagenicity		
Prod	uct:		
	toxicity in vitro	: Remarks: No data available	
Geno	toxicity in vivo	: Remarks: No data available	
<u>Com</u>	ponents:		
		m):	
White	ponents:	: Test Type: Ames test	oonella typhimurium - reverse
White Geno	ponents: e mineral oil (petrole	: Test Type: Ames test Method: Mutagenicity (Salm mutation assay) Result: negative GLP: yes	onella typhimurium - reverse nalian cell cultures did not show
White Geno Germ Asses	ponents: e mineral oil (petrole toxicity in vitro	 Test Type: Ames test Method: Mutagenicity (Salm mutation assay) Result: negative GLP: yes Tests on bacterial or mamm 	
White Geno Germ Asses	ponents: e mineral oil (petrole toxicity in vitro cell mutagenicity - ssment	 Test Type: Ames test Method: Mutagenicity (Salm mutation assay) Result: negative GLP: yes Tests on bacterial or mamm 	





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White	oonents:				
vvnite	e mineral oil (petrole	um):			
	nogenicity - ssment	: No evidence of carcinogenicity in	n animal studies.		
IARC		nent of this product present at levels gre s probable, possible or confirmed huma			
		nent of this product present at levels gre list of regulated carcinogens.	this product present at levels greater than or equal to 0.1% is regulated carcinogens.		
		nent of this product present at levels gre s a known or anticipated carcinogen by			
Repre	oductive toxicity				
Prod	uct:				
Effect	ts on fertility	: Remarks: No data available			
	ts on foetal opment	: Remarks: No data available			
Com	oonents:				
White	e mineral oil (petrole	um):			
	oductive toxicity -	: - Fertility -			
Asses	ssment	No toxicity to reproduction - Teratogenicity -			
		No effects on or via lactation			
		reaction products with 2,4,4-trimethy	/lpentene:		
	oductive toxicity - ssment	: - Fertility -			
10000			Some evidence of adverse effects on sexual function and fertility, based on animal experiments.		
STOT	- single exposure				
<u>Com</u>	oonents:				
White	e mineral oil (petrole	um):			
Asses	ssment	: The substance or mixture is not organ toxicant, single exposure.			





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STOT	- repeated exposu	re		
	• •			
	oonents:			
	mineral oil (petrole	eum):	T I	10 - 1 10
Asses	sment	:	The substance or mixture is not class organ toxicant, repeated exposure.	ined as specific target
Repea	ated dose toxicity			
<u>Produ</u>	<u>ict:</u>			
Rema	rks	:	This information is not available.	
<u>Comp</u>	oonents:			
White	mineral oil (petrole	eum):		
NOAE		:	1,800 mg/kg	
Expos	sure time	:	90 d	
Aspira	ation toxicity			
Produ	<u>ict:</u>			
This ir	nformation is not ava	ilable.		
Comp	oonents:			
White	mineral oil (petrole	eum):		
No as	piration toxicity class	sificatio	n	
Furth	er information			
<u>Produ</u>	<u>ict:</u>			
Rema	rks	:	Information given is based on data or the toxicology of similar products.	the components and
CTION	12. ECOLOGICAL I	NFORM	IATION	
Ecoto	oxicity			
	-			
Drade	ict.			
<u>Produ</u> Toxici	ıct: ty to fish			

Toxicity to daphnia and other	:	
aquatic invertebrates		Remarks: No data available





y to algae/aquatic	:		
		Remarks: No data available	
y to microorganisms	:	Remarks: No data available	
onents:			
mineral oil (petroleu	m):		
y to fish	:	Exposure time: 96 h Test Type: static test	
y to daphnia and other invertebrates	:	Exposure time: 48 h Test Type: Immobilization	-
y to daphnia and other c invertebrates ic toxicity)	·	NOEC (Daphnia magna (Water fle Exposure time: 21 d	a)): >= 1,000 mg/l
namine, N-phenyl-, ro	eacti	on products with 2.4.4-trimethylp	pentene:
y to fish	:	LC50 (Danio rerio (zebra fish)): > Exposure time: 96 h Test Type: static test	100 mg/l
y to daphnia and other invertebrates	· :	Exposure time: 48 h Test Type: static test	
y to algae/aquatic	÷	Exposure time: 72 h Test Type: static test	
	mineral oil (petroleur y to fish y to daphnia and other invertebrates ic toxicity) namine, N-phenyl-, re y to fish y to daphnia and other invertebrates	<pre>mineral oil (petroleum): y to fish : y to daphnia and other : invertebrates y to daphnia and other : invertebrates ic toxicity) namine, N-phenyl-, reacti y to fish : y to daphnia and other : invertebrates</pre>	mineral oil (petroleum):y to fish:LC50 (Oncorhynchus mykiss (rain Exposure time: 96 h Test Type: static test Method: OECD Test Guideline 203y to daphnia and other:EC50 (Daphnia (water flea)): > 100 Exposure time: 48 h Test Type: Immobilization Method: OECD Test Guideline 203y to daphnia and other:NOEC (Daphnia magna (Water flea) Exposure time: 21 dy to daphnia and other:NOEC (Daphnia magna (Water flea) Exposure time: 21 dy to daphnia and other:NOEC (Daphnia magna (Water flea) Exposure time: 21 dy to fish:LC50 (Danio rerio (zebra fish)): > 100 Exposure time: 96 h Test Type: static test Method: OECD Test Guideline 203y to daphnia and other:EC50 (Daphnia magna (Water flea)) Exposure time: 96 h Test Type: static test Method: OECD Test Guideline 203y to daphnia and other:EC50 (Daphnia magna (Water flea)) Exposure time: 48 h Test Type: static test Method: OECD Test Guideline 203y to algae/aquatic:EC50 (Desmodesmus subspicatus Exposure time: 72 h

Product:

Biodegradability	:	Remarks: No data available
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	co-chemical /ability	: Remarks: No data available	
Comp	oonents:		
	e mineral oil (petrole gradability	um): Primary biodegradation Inoculum: activated sludge Result: Not rapidly biodegradabl Biodegradation: 31 % Exposure time: 28 d Method: OECD Test Guideline 3	
	enamine, N-phenyl-, gradability	reaction products with 2,4,4-trimethy : aerobic Inoculum: activated sludge Result: Not rapidly biodegradabl Biodegradation: 1 % Exposure time: 28 d Method: OECD Test Guideline 3 GLP: yes	e
Bioad	cumulative potentia	1	
<u>Produ</u> Bioac	<u>uct:</u> cumulation	: Remarks: This mixture contains be persistent, bioaccumulating a This mixture contains no substar persistent and very bioaccumula	Ind toxic (PBT). nce considered to be very
<u>Comp</u>	oonents:		
Partiti	e mineral oil (petrole on coefficient: n- ol/water	um): : Pow: > 6	
Partiti	enamine, N-phenyl-, on coefficient: n- ol/water	reaction products with 2,4,4-trimethy : log Pow: > 5	/lpentene:
Mobil	lity in soil		
<u>Produ</u>	-		
		13 / 17	a brand of



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	Mobility		:	Remarks: No data available	
		ution among Imental compartments	:	Remarks: No data available	
	Other a	adverse effects			
	Produc	<u>ct:</u>			
	Ozone	Depletion Potential	:	Regulation: 40 CFR Protection of Environ Protection of Stratospheric Ozone - CAA Substances Remarks: This product neither contains, r manufactured with a Class I or Class II O U.S. Clean Air Act Section 602 (40 CFR & B).	Section 602 Class I nor was DS as defined by the
	Additio informa	nal ecological ation	:	No information on ecology is available.	
	Compo	onents:			
		mineral oil (petroleur s of PBT and vPvB ment	n): :	Non-classified PBT substance Non-class	ified vPvB substance

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods		
Waste from residues	:	The product should not be allowed to enter drains, water courses or the soil.
Contaminated packaging	:	Packaging that is not properly emptied must be disposed of as the unused product. Dispose of waste product or used containers according to local regulations.

SECTION 14. TRANSPORT INFORMATION

International Regulations

UNRTDG Not regulated as a dangerous good IATA-DGR

Not regulated as a dangerous good

IMDG-Code





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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.

National Regulations

49 CFR Not regulated as a dangerous good **Special precautions for user**

Not applicable

SECTION 15. REGULATORY INFORMATION

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	:	Reproductive toxicity
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.

Clean Air Act

This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B). This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 112 (40 CFR 61).

California Prop. 65

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

TSCA list

No substances are subject to a Significant New Use Rule.

No substances are subject to TSCA 12(b) export notification requirements.

SECTION 16. OTHER INFORMATION

Further information

Full text of other abbreviations

ACGIH :	USA. ACGIH Threshold Limit Values (TLV)
NIOSH REL :	USA. NIOSH Recommended Exposure Limits
OSHA PO :	USA. Table Z-1-A Limits for Air Contaminants (1989 vacated
	values)





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ACGIH / TWA		: 8-hour, time-weighted average		
NIOSH REL / TWA		: Time-weighted average concent workday during a 40-hour workv		
NIOSH REL / ST		: STEL - 15-minute TWA exposur at any time during a workday	: STEL - 15-minute TWA exposure that should not be exceeded at any time during a workday	
OSHA P0 / TWA OSHA Z-1 / TWA		8-hour time weighted average8-hour time weighted average		

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) 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

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