

Version	Revision Date:	Date of last issue: 09/09/2022	Print Date:
2.0	11/24/2022	Date of first issue: 08/18/2021	11/24/2022

SECTION 1. IDENTIFICATION

- Product name : UniPar FG-220
- Article-No. : 340240

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 responsible for the SDS	:	mcm@us.kluber.com Material Compliance Management
Emergency telephone	:	+1-517-545-7070 NCEC
Recommended use of the che Recommended use	em :	ical and restrictions on 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	

SAFETY DATA SHEET



UniPar FG-220

Version Revision Date:	Data of last issues 00/00/2022	
2.0 11/24/2022	Date of last issue: 09/09/2022 Date of first issue: 08/18/2021	Print Date: 11/24/2022
Hazard statements	: Suspected of damaging fertility.	
Precautionary statements	Prevention:	
	Obtain special instructions before Do not handle until all safety preca understood. Wear protective gloves/ protective protection.	utions have been read and
	Response: IF exposed or concerned: Get med	dical advice/ attention.
	Storage: Store locked up.	
	Disposal:	
	Dispose of contents/ container to a plant.	an approved waste disposal
Other hazards		

None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

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

Components

Chemical name	CAS-No.	Concentration (% w/w)				
White mineral oil (petroleum)	8042-47-5	Trade secret (>= 60 - < 80)				
Benzenamine, N-phenyl-, reaction	68411-46-1	Trade secret (>= 0.1 - < 1)				
products with 2,4,4-trimethylpentene						
Actual concentration is withheld as a trade secret						

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





Version 2.0	Revision Date: 11/24/2022	Date of last issue: 09/09/2022 Date of first issue: 08/18/2021	Print Date: 11/24/2022
		medical attention. In case of contact, immediately	y flush skin with plenty of water.
In ca	se of eye contact	: Rinse immediately with plenty for at least 10 minutes. If eye irritation persists, consul	of water, also under the eyelids, It a specialist.
If swallowed		: Move the victim to fresh air. Do NOT induce vomiting. Rinse mouth with water.	
Most important symptoms and effects, both acute and delayed		: 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





	0-220				
Version 2.0	Revision Date: 11/24/2022		e of last issue: 09/09/2022 e of first issue: 08/18/2021	Print Date: 11/24/2022	
conta	inment and cleaning u	ıp	absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).		
SECTION	7. HANDLING AND S	STOR	AGE		
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. Do not get in eyes or mouth or on skin. Do not get on skin or clothing.			
Conditions for safe storage :		Store in original container. Keep container closed when not Keep in a dry, cool and well-vent Containers which are opened mu kept upright to prevent leakage. Store in accordance with the par Keep in properly labelled contain	tilated place. ust be carefully resealed and ticular national regulations.		

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.





Version 2.0	Revision Date: 11/24/2022	Date of last issue: 09/09/2022 Print Date: Date of first issue: 08/18/2021 11/24/2022				
Fi	Filter type		Filter type A-P			
Hand protection Material Break through time Protective index		:	Nitrile rubber > 10 min Class 1			
Remarks		:	For prolonged or repeated contac break through time depends amon material, the thickness and the typ has to be measured for each case	ngst other things on the be of glove and therefore		
Eye p	protection	:	Safety glasses with side-shields			
Skin and body protection		:	Choose body protection in relation concentration and amount of dang the specific work-place.			
Prote	ective measures	:	The type of protective equipment to the concentration and amount of at the specific workplace.			
Hygiene measures		:	Wash face, hands and any expos handling.	ed skin thoroughly after		

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

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





Version Revision Date: Date of last issue: 09/09/2022 Print Date: 2.0 11/24/2022 Date of first issue: 08/18/2021 11/24/2022	Version	Revision Date:	Date of last issue: 09/09/2022	Print Date:
	2.0	11/24/2022	Date of first issue: 08/18/2021	11/24/2022

Evaporation rate		No data available
Flammability (solid, gas)	:	Not applicable
Self-ignition	:	No data available
Upper explosion limit / Upper flammability limit	:	No data available
Lower explosion limit / Lower flammability limit	:	No data available
Vapour pressure	:	< 0.001 hPa (68 °F / 20 °C)
Relative vapour density	:	No data available
Relative density	:	0.866 (68 °F / 20 °C) Reference substance: Water The value is calculated
Bulk density	:	No data available
Solubility(ies) Water solubility	:	insoluble
Solubility in other solvents	:	No data available
Partition coefficient: n- octanol/water	:	No data available
Auto-ignition temperature	:	No data available
Decomposition temperature	:	No data available
Viscosity Viscosity, dynamic	:	No data available
Viscosity, kinematic	:	226 mm2/s (104 °F / 40 °C)
Explosive properties	:	Not explosive
Oxidizing properties	:	No data available
Sublimation point	:	No data available

SECTION 10. STABILITY AND REACTIVITY





Version 2.0	Revision Date: 11/24/2022		e of last issue: 09/09/2022 e of first issue: 08/18/2021	Print Date: 11/24/2022
Read	tivity	:	No hazards to be specially mention	oned.
Chen	Chemical stability		Stable under normal conditions.	
	Possibility of hazardous reactions		No dangerous reaction known un	nder conditions of normal use.
Cond	Conditions to avoid		No conditions to be specially mer	ntioned.
Incon	Incompatible materials		No materials to be especially me	ntioned.
	Hazardous decomposition products		No decomposition if stored and a	pplied 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	ı):	
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-, rea	act	ion products with 2,4,4-trimethylpentene:





sion	Revision Date: 11/24/2022	Date of last issue: 09/09 Date of first issue: 08/18		Print Date: 11/24/2022
A				
Acute	e dermal toxicity	: LD50 (Rat): > 2,000 Method: OECD Tes		
				ture has no acute derma
		toxicity		
Skin	corrosion/irritation			
Prod	luct:			
Rem	arks	: This information is	not available.	
<u>Com</u>	ponents:			
Whit	e mineral oil (petrol	um):		
Spec		: Rabbit		
	ssment	: No skin irritation		
Meth		: OECD Test Guideli	ne 404	
Resu	llt	: No skin irritation		
GLP		: yes		
Benz	zenamine, N-phenyl-	reaction products with 2	,4,4-trimethylpe	entene:
Spec	eies	: Rabbit		
	ssment	: No skin irritation		
Meth		: OECD Test Guideli	ne 404	
Resu	lit	: No skin irritation		
Serio	ous eye damage/eye	irritation		
<u>Prod</u>	luct:			
<u>Prod</u> Rema		: This information is	not available.	
Rem		: This information is	not available.	
Rema	arks		not available.	
Rema Com White Spec	arks ponents: e mineral oil (petrol ^{cies}	um): : Rabbit	not available.	
Rema Com Whit Spec Resu	arks ponents: e mineral oil (petrol ^{iies} Ilt	um): : Rabbit : No eye irritation	not available.	
Rema Com Whit Spec Resu Asse	arks ponents: e mineral oil (petrol ^{cies} ult ssment	um): : Rabbit : No eye irritation : No eye irritation		
Rema Com Whit Spec Resu Asse Meth	arks ponents: e mineral oil (petrol ^{cies} ult ssment	um): : Rabbit : No eye irritation : No eye irritation : OECD Test Guideli		
Rema Com Whit Spec Resu Asse	arks ponents: e mineral oil (petrol ^{cies} ult ssment	um): : Rabbit : No eye irritation : No eye irritation		
Rema Com Whit Spec Resu Asse Meth GLP	arks ponents: e mineral oil (petrol ies ilt issment od	um): : Rabbit : No eye irritation : No eye irritation : OECD Test Guideli : yes reaction products with 2	ine 405	entene:
Rema Com White Spec Resu Asse Meth GLP Benz Spec	arks ponents: e mineral oil (petrol cies ult ssment od zenamine, N-phenyl- cies	um): : Rabbit : No eye irritation : No eye irritation : OECD Test Guideli : yes reaction products with 2 : Rabbit	ine 405	entene:
Rema Com Whit Spec Resu Asse Meth GLP Benz Spec Resu	arks ponents: e mineral oil (petrol ies ilt ssment od zenamine, N-phenyl- ies ilt	um): : Rabbit : No eye irritation : No eye irritation : OECD Test Guideli : yes reaction products with 2 : Rabbit : No eye irritation	ine 405	entene:
Rema Com Whit Spec Resu Asse Meth GLP Benz Spec Resu	arks ponents: e mineral oil (petrol cies lt ssment od cenamine, N-phenyl- cies lt ssment	um): : Rabbit : No eye irritation : No eye irritation : OECD Test Guideli : yes reaction products with 2 : Rabbit	ine 405 2 ,4,4-trimethylpe	entene:



SAFETY DATA SHEET



JniPar	FG-220			
/ersion 2.0	Revision Date: 11/24/2022		e of last issue: 09/09/2022 e of first issue: 08/18/2021	Print Date: 11/24/2022
Resp	piratory or skin sens	sitisatio	on	
Prod	luct:			
Rem	arks	:	This information is not available.	
<u>Com</u>	ponents:			
Whit	e mineral oil (petrol	eum):		
	Туре	:	Maximisation Test	
Spec		:	Guinea pig	
Asse Meth	essment	-	Does not cause skin sensitisation. OECD Test Guideline 406	
Resu		:	Does not cause skin sensitisation.	
GLP		:	yes	
Benz	zenamine, N-phenyl	-, react	ion products with 2,4,4-trimethylp	entene:
Spec	cies	:	Guinea pig	
	ssment	:	Did not cause sensitisation on labo	ratory animals.
Meth		:	OECD Test Guideline 406	
Resu	lit	:	Did not cause sensitisation on labo	ratory animais.
Gern	n cell mutagenicity			
Prod	luct:			
Geno	otoxicity in vitro	:	Remarks: No data available	
Geno	otoxicity in vivo	:	Remarks: No data available	
<u>Com</u>	ponents:			
Whit	e mineral oil (petrol	eum):		
Genc	otoxicity in vitro	:	Test Type: Ames test Method: Mutagenicity (Salmonella mutation assay) Result: negative GLP: yes	typhimurium - reverse
	n cell mutagenicity - essment	:	Tests on bacterial or mammalian co mutagenic effects.	ell cultures did not show
Carc	inogenicity			
Prod	luct:			
Rem		:	No data available	





niPar FG-220							
ersion Revisio) 11/24/2			e of last issue: 09/09/2022 e of first issue: 08/18/2021	Print Date: 11/24/2022			
Components:							
White mineral	oil (petroleur	m):					
Carcinogenicity - Assessment		: No evidence of carcinogenicity in animal studies.					
IARC		ent of this product present at levels greater than or equal to 0.1% is s probable, possible or confirmed human carcinogen by IARC.					
IARC OSHA		ent of this product present at levels greater than or equal to 0.1% is list of regulated carcinogens.					
NTP			this product present at levels great own or anticipated carcinogen by N				
Reproductive	toxicity						
Product:							
Effects on fertili	ity	:	Remarks: No data available				
Effects on foeta development	al	:	Remarks: No data available				
Components:							
White mineral		m):					
Reproductive to Assessment	oxicity -	:	- Fertility -				
Assessment			No toxicity to reproduction - Teratogenicity -				
			No effects on or via lactation				
			on products with 2,4,4-trimethy	Ipentene:			
Reproductive to Assessment	oxicity -	:	- Fertility -				
		Some evidence of adverse effects on sexual function an fertility, based on animal experiments.					
STOT - single	exposure						
<u>Components:</u>							
White mineral	oil (petroleur	m):					
Assessment		:	The substance or mixture is not organ toxicant, single exposure.	classified as specific target			





rsion	Revision Date: 11/24/2022		e of last issue: 09/09/2022 e of first issue: 08/18/2021	Print Date: 11/24/2022
STOT	- repeated exposure	•		
Com	oonents:			
White	e mineral oil (petroleu	ım):		
Asses	ssment	:	The substance or mixture is not class organ toxicant, repeated exposure.	sified as specific target
Repe	ated dose toxicity			
Produ	uct:			
Rema	arks	:	This information is not available.	
<u>Com</u>	oonents:			
White	e mineral oil (petroleu	ım):		
NOAE Expos	EL sure time	:	1,800 mg/kg 90 d	
Aspir	ation toxicity			
Produ	uct:			
This i	nformation is not availa	able.		
<u>Com</u>	<u>oonents:</u>			
	e mineral oil (petroleu piration toxicity classifi		n	
Furth	er information			
Produ	uct:			
Rema		:	Information given is based on data o the toxicology of similar products.	n the components and
CTION	12. ECOLOGICAL IN	FORM	IATION	
Ecoto	oxicity			
Produ	uct:			
	ity to fish	:	Remarks: No data available	
Toxic	ity to daphnia and othe	er :		





rsion)	Revision Date: 11/24/2022		e of last issue: 09/09/2022 e of first issue: 08/18/2021	Print Date: 11/24/2022
Toxicit plants	ty to algae/aquatic	:	Remarks: No data available	
Toxicit	ty to microorganisms	:	Remarks: No data available	
<u>Comp</u>	onents:			
White	mineral oil (petroleu	m):		
	ty to fish	:	LC50 (Oncorhynchus mykiss (rain Exposure time: 96 h Test Type: static test Method: OECD Test Guideline 20	
	ty to daphnia and other c invertebrates	:	EC50 (Daphnia (water flea)): > 10 Exposure time: 48 h Test Type: Immobilization Method: OECD Test Guideline 20	-
aquati	ty to daphnia and other c invertebrates nic toxicity)	:	NOEC (Daphnia magna (Water fle Exposure time: 21 d	ea)): >= 1,000 mg/l
Benze	enamine N-nhenyl- re	acti	on products with 2,4,4-trimethyl	nentene:
	ty to fish	:	LC50 (Danio rerio (zebra fish)): > Exposure time: 96 h Test Type: static test Method: OECD Test Guideline 20	100 mg/l
	ty to daphnia and other c invertebrates	:	EC50 (Daphnia magna (Water flea Exposure time: 48 h Test Type: static test Method: OECD Test Guideline 20	
Toxicit plants	ty to algae/aquatic	:	EC50 (Desmodesmus subspicatus Exposure time: 72 h Test Type: static test	s (green algae)): > 100 mg

Product:

Biodegradability	:	Remarks: No data available
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ersion 0	Revision Date: 11/24/2022	Date of last issue: 09/09/2 Date of first issue: 08/18/2	
Physic remov	co-chemical rability	: Remarks: No data av	ailable
	onents:	,	
	mineral oil (petrologradability	Eum): Primary biodegradation Inoculum: activated s Result: Not rapidly bio Biodegradation: 31 % Exposure time: 28 d Method: OECD Test	ludge odegradable %
Benze	enamine, N-phenyl-	reaction products with 2,4	,4-trimethylpentene:
Biode	gradability	: aerobic Inoculum: activated s Result: Not rapidly bio Biodegradation: 1 % Exposure time: 28 d Method: OECD Test GLP: yes	odegradable
Bioac	cumulative potenti	al	
<u>Produ</u>			
Bioaco	cumulation	be persistent, bioaccu This mixture contains	re contains no substance considered to umulating and toxic (PBT). a no substance considered to be very ioaccumulating (vPvB).
<u>Comp</u>	oonents:		
	mineral oil (petrol	•	
	on coefficient: n- ol/water	: Pow: > 6	
Benze	enamine, N-phenyl-	reaction products with 2,4	,4-trimethylpentene:
	on coefficient: n- bl/water	: log Pow: > 5	
Mobili	ity in soil		
<u>Produ</u>	ict:		
		13/17	a brand of





Versior 2.0	n Revision Date: 11/24/2022		e of last issue: 09/09/2022 e of first issue: 08/18/2021	Print Date: 11/24/2022
Мо	obility	:	Remarks: No data available	
	stribution among vironmental compartments		Remarks: No data available	
Ot	her adverse effects			
Pr	oduct:			
Oz	zone-Depletion Potential	:	Regulation: 40 CFR Protection of En Protection of Stratospheric Ozone - Substances Remarks: This product neither conta manufactured with a Class I or Clas U.S. Clean Air Act Section 602 (40 G B).	CAA Section 602 Class I ains, nor was s II ODS as defined by the
	lditional ecological ormation	:	No information on ecology is availab	ble.
<u>Cc</u>	omponents:			
W	hite mineral oil (petroleur	n):		
Re	esults of PBT and vPvB sessment	:	Non-classified PBT substance Non-	classified 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





Version	Revision Date:	Date of last issue: 09/09/2022	Print Date:
2.0	11/24/2022	Date of first issue: 08/18/2021	11/24/2022
2.0	11/24/2022	Date of first issue. 00/10/2021	11/24/2022

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)



OSHA Z-1 / TWA



UniPar FG-220

Version 2.0	Revision Date: 11/24/2022		e of last issue: 09/09/2022 e of first issue: 08/18/2021	Print Date: 11/24/2022	
OSH/	A Z-1	:	USA. Occupational Exposure Lin Limits for Air Contaminants	nits (OSHA) - Table Z-1	
ACGI	H / TWA	:	8-hour, time-weighted average		
NIOS	H REL / TWA	:	: Time-weighted average concentration for up to a 10-hour workday during a 40-hour workweek		
NIOS	H REL / ST	:	STEL - 15-minute TWA exposure at any time during a workday	e that should not be exceeded	
OSH/	A P0 / TWA	:	: 8-hour time weighted average		

5

8-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

Revision Date : 11/24/2022

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Version	Revision Date:	Date of last issue: 09/09/2022	Print Date:
2.0	11/24/2022	Date of first issue: 08/18/2021	11/24/2022

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