

Oynoca				
Version 2.2	Revision Date: 2024-05-16		e of last issue: 2024-03-18 e of first issue: 2021-10-18	Print Date: 2024-05-16
SECTION	1. IDENTIFICATION			
Produ	uct name	:	SynGear PS FG-460	
Article	Article-No.		340242	
Other	means of identification	:	No data available	
Manu	afacturer or supplier's	deta	ils	
Comp	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	
	il address of person onsible for the SDS	:	mcm@us.kluber.com	
Emer numb	gency telephone ber	:	+1 517 545 7070 NCEC	
Reco	mmended use of the o	chen	nical and restrictions on use	
Reco	mmended use	:	Lubricating oil	
Restr	ictions on use	:	Restricted to professional users.	

SECTION 2. HAZARDS IDENTIFICATION

GHS classification in accordance with the Hazardous Products Regulations			
Reproductive toxicity	:	Category 2	

GHS label elements

Hazard pictograms



2

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Signal word
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Haza	rd statements	: Suspected of damaging fertility.	
Precautionary statements		 Prevention: Obtain special instructions before use. Do not handle until all safety precautions understood. Wear protective gloves/ protective clothin protection. 	
		Response: IF exposed or concerned: Get medical a Storage:	dvice/ attention.
		Store locked up. Disposal: Dispose of contents/ container to an app plant.	roved waste disposal
	r hazards known.		

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture

: Mixture

Chemical nature

: Mineral oil. Polymer

Components

	Common Name/Synonym	CAS-No.	Concentration (% w/w)
	White mineral oil (petroleum)	8042-47-5	Trade secret (>= 60 - < 80 *)
phenyl-, reaction products with 2,4,4- trimethylpentene	Benzenamine, N-phenyl-, reaction products with 2,4,4- trimethylpenten e	68411-46-1	Trade secret (>= 0.1 - < 1 *)

^{*} Actual concentration or concentration range is withheld as a trade secret

SECTION 4. FIRST AID MEASURES





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lf inh	naled	:	Obtain medical attention. Remove person to fresh air. If signs medical attention. Keep patient warm and at rest. If unconscious, place in recovery p advice. Keep respiratory tract clear. If breathing is irregular or stopped, respiration.	osition and seek medical
In ca	ase of skin contact	:	Take off all contaminated clothing i Get medical attention immediately persists. Wash clothing before reuse. Thoroughly clean shoes before reu Wash off immediately with plenty o	if irritation develops and se.
In ca	ase of eye contact	:	Rinse immediately with plenty of wa for at least 10 minutes. If eye irritation persists, consult a s	
lf sw	allowed	:	Move the victim to fresh air. If unconscious, place in recovery p advice. Keep respiratory tract clear. Do NOT induce vomiting. Obtain medical attention. Rinse mouth with water. Never give anything by mouth to an	
	t important symptoms effects, both acute and yed	:	No information available. None known.	
Note	es 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	:	In the event of fire, wear self-contained breathing apparatus.





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for fir	refighters	Use personal protective equipmer Exposure to decomposition produ health.	

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures	:	Evacuate personnel to safe areas. Use personal protective equipment. Ensure adequate ventilation. Do not breathe vapours or spray mist. 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 containment and cleaning up	:	Contain spillage, and then collect with non-combustible 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 STORAGE

Advice on safe handling :	Do not breathe vapours or spray mist. Avoid contact with skin and eyes. 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. Do not get on skin or clothing. Do not repack. Do not repack. Do not re-use empty containers. These safety instructions also apply to empty packaging which may still contain product residues. Keep container closed when not in use.
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 (Mist)	5 mg/m3	CA AB OEL (2009-04-30)
		STEL (Mist)	10 mg/m3	CA AB OEL (2009-04-30)
		TWAEV (Mist - Inhalable dust)	5 mg/m3	CA QC OEL (2022-04-13)
		TWA (Mist)	1 mg/m3	CA BC OEL (2021-01-04)
		TWA (Inhalable particulate matter)	5 mg/m3	ACGIH (2013-03-01)

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

Personal protective equipment	ent	
Respiratory protection	:	Not required; except in case of aerosol formation.
Filter type	:	Filter type A-P
Hand protection Material Break through time Protective index	:	Nitrile rubber > 10 min Class 1
Remarks	:	Wear 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 with side-shields
Skin and body protection	:	Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place.
Protective measures	:	The type of protective equipment must be selected according to the concentration and amount of the dangerous substance





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			at the specific workplace.	
Hygie	Hygiene measures		: Wash face, hands and any exposed skin thoroug handling.	
ECTION	9. PHYSICAL AND CH	IEMI	CAL PROPERTIES	
Арре	earance	:	liquid	
Color	ur	:	colourless	
Odou	ır	:	characteristic	
Odou	ur Threshold	:	No data available	
pН		:	Not applicable	
Melti	ng point/range	:	No data available	
Boilir	ng point/boiling range	:	No data available	
Flash	Flash point		>= 210 °C	
Evap	oration rate	:	No data available	
Flam	mability (solid, gas)	:	Not applicable	
Self-i	ignition	:	No data available	
	er explosion limit / Upper nability limit	r:	No data available	
	er explosion limit / Lower nability limit	r:	No data available	
Vapo	our pressure	:	< 0.001 hPa (20 °C)	
Relat	tive vapour density	:	No data available	
Relat	tive density	:	0.873 (20 °C) Reference substance: Water The value is calculated	





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Bulk	density	:	No data available	
Solubility(ies) Water solubility		:	insoluble	
S	Solubility in other solvents	5 :	No data available	
	ition coefficient: n- nol/water	:	No data available	
Auto	-ignition temperature	:	No data available	
Dece	omposition temperature	:	No data available	
	osity /iscosity, dynamic	:	No data available	
V	iscosity, kinematic	:	480 mm2/s (40 °C)	
Expl	osive properties	:	Not explosive	
Oxid	lizing properties	:	No data available	
Subl	limation point	:	No data available	

SECTION 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	:	No decomposition if stored and applied as directed.

SECTION 11. TOXICOLOGICAL INFORMATION

Acute toxicity	
Product: Acute oral toxicity	: Remarks: This information is not available.
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Acute	inhalation toxicity	:	Remarks: This information is not av	vailable.
Acute	dermal toxicity	:	Remarks: This information is not av	vailable.
Comp	oonents:			
White	e mineral oil (petrole	eum):		
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 mix inhalation toxicity	
Acute	dermal toxicity	:	LD50 (Rabbit): > 2,000 mg/kg Method: OECD Test Guideline 402 GLP: yes Assessment: The substance or mix toxicity	
			toxicity	
Bonz	onamino N-nhonyl-	roacti		antana.
	enamine, N-phenyl-, oral toxicity		ion products with 2,4,4-trimethylp LD50 (Rat): > 5,000 mg/kg Method: OECD Test Guideline 401	entene:
Acute		:	on products with 2,4,4-trimethylp LD50 (Rat): > 5,000 mg/kg	
Acute Acute	oral toxicity	:	on products with 2,4,4-trimethylpo LD50 (Rat): > 5,000 mg/kg Method: OECD Test Guideline 401 LD50 (Rat): > 2,000 mg/kg Method: OECD Test Guideline 402 Assessment: The substance or mix	
Acute Acute	oral toxicity dermal toxicity corrosion/irritation	:	on products with 2,4,4-trimethylpo LD50 (Rat): > 5,000 mg/kg Method: OECD Test Guideline 401 LD50 (Rat): > 2,000 mg/kg Method: OECD Test Guideline 402 Assessment: The substance or mix	
Acute Acute	oral toxicity dermal toxicity corrosion/irritation	:	on products with 2,4,4-trimethylpo LD50 (Rat): > 5,000 mg/kg Method: OECD Test Guideline 401 LD50 (Rat): > 2,000 mg/kg Method: OECD Test Guideline 402 Assessment: The substance or mix	
Acute Acute Skin (<u>Produ</u> Rema	oral toxicity dermal toxicity corrosion/irritation	:	ion products with 2,4,4-trimethylpe LD50 (Rat): > 5,000 mg/kg Method: OECD Test Guideline 401 LD50 (Rat): > 2,000 mg/kg Method: OECD Test Guideline 402 Assessment: The substance or mix toxicity	
Acute Acute Skin o Produ Rema	oral toxicity dermal toxicity corrosion/irritation <u>uct:</u> arks	:	ion products with 2,4,4-trimethylpe LD50 (Rat): > 5,000 mg/kg Method: OECD Test Guideline 401 LD50 (Rat): > 2,000 mg/kg Method: OECD Test Guideline 402 Assessment: The substance or mix toxicity	
Acute Acute Skin o Produ Rema	oral toxicity dermal toxicity corrosion/irritation <u>uct:</u> arks <u>conents:</u>	:	ion products with 2,4,4-trimethylpe LD50 (Rat): > 5,000 mg/kg Method: OECD Test Guideline 401 LD50 (Rat): > 2,000 mg/kg Method: OECD Test Guideline 402 Assessment: The substance or mix toxicity	
Acute Acute Skin o Produ Rema Speci Asses	oral toxicity dermal toxicity corrosion/irritation <u>uct:</u> arks <u>conents:</u> e mineral oil (petrole es ssment	:	ion products with 2,4,4-trimethylpo LD50 (Rat): > 5,000 mg/kg Method: OECD Test Guideline 401 LD50 (Rat): > 2,000 mg/kg Method: OECD Test Guideline 402 Assessment: The substance or mix toxicity This information is not available.	
Acute Acute Skin o Produ Rema Comp Speci	oral toxicity dermal toxicity corrosion/irritation <u>uct:</u> arks <u>conents:</u> e mineral oil (petrole es ssment od	:	fon products with 2,4,4-trimethylpe LD50 (Rat): > 5,000 mg/kg Method: OECD Test Guideline 401 LD50 (Rat): > 2,000 mg/kg Method: OECD Test Guideline 402 Assessment: The substance or mix toxicity This information is not available.	





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	Benze	enamine, N-phenyl-,	reaction products with 2,4,4-trimethylpent	ene:
	Specie		: Rabbit	
	Asses		: No skin irritation	
	Metho	d	: OECD Test Guideline 404	
	Result	:	: No skin irritation	
	Seriou	us eye damage/eye i	rritation	
	Produ		-	
	Rema	rks	: This information is not available.	
	<u>Comp</u>	onents:		
	White	mineral oil (petrole	ım):	
	Specie	25	: Rabbit	
	Result		: No eye irritation	
		sment	: No eye irritation	
	Metho		: OECD Test Guideline 405	
	GLP	9	: yes	
	01.		. ,00	
	Benze	enamine, N-phenyl-,	reaction products with 2,4,4-trimethylpent	ene:
	Specie	es	: Rabbit	
	Result		: No eye irritation	
	Asses	sment	: No eye irritation	
	Metho	d	: OECD Test Guideline 405	
	Respi	ratory or skin sensit	isation	
	<u>Produ</u>	-		
	Rema		: This information is not available.	
	Rema	IKS		
	Comp	onents:		
		mineral oil (petrole	im).	
			: Maximisation Test	
	Test T			
	Specie		: Guinea pig	
	Asses		: Does not cause skin sensitisation.	
	Metho		: OECD Test Guideline 406	
	Result		: Does not cause skin sensitisation.	
	GLP		: yes	
	Benze	enamine, N-phenyl-,	reaction products with 2,4,4-trimethylpent	ene:
	Specie	es	: Guinea pig	
	Asses		: Did not cause sensitisation on laborate	orv animals.
	Metho		: OECD Test Guideline 406	
	Result		: Did not cause sensitisation on laborate	orv animals
	Rooun			





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y		
:	Remarks: No data available	
:	Remarks: No data available	
oleum):		
:	Test Type: Ames test Method: Mutagenicity (Salmonell mutation assay) Result: negative GLP: yes	a typhimurium - reverse
- :	Tests on bacterial or mammalian mutagenic effects.	cell cultures did not show
:	No data available	
oleum):		
:	No evidence of carcinogenicity in	animal studies.
:	Remarks: No data available	
:	Remarks: No data available	
oleum):		
:	- Fertility -	
	No toxicity to reproduction - Teratogenicity -	
	No effects on or via lactation	
	oleum): : - : : oleum):	 Remarks: No data available Remarks: No data available Remarks: No data available I Test Type: Ames test Method: Mutagenicity (Salmonell mutation assay) Result: negative GLP: yes Tests on bacterial or mammalian mutagenic effects. No data available No evidence of carcinogenicity in Remarks: No data available

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





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Reproductive toxicity - Assessment		:	- Fertility -	
			Some evidence of adverse effects fertility, based on animal experime	
стот	- single exposure			
<u>Produ</u>	<u>ict:</u>			
Rema	rks	:	No data available	
<u>Comp</u>	onents:			
White	mineral oil (petrole	eum):		
Asses	sment		The substance or mixture is not cl organ toxicant, single exposure.	assified as specific target
стот	- repeated exposu	re		
<u>Produ</u>	<u>ict:</u>			
Rema	rks	:	No data available	
<u>Comp</u>	onents:			
White	mineral oil (petrole	eum):		
Asses	sment		The substance or mixture is not cl organ toxicant, repeated exposure	
Repea	ated dose toxicity			
<u>Produ</u>	<u>ict:</u>			
Rema	rks	:	This information is not available.	
Comp	oonents:			
White	mineral oil (petrole	eum):		
NOAE Expos	L sure time		1,800 mg/kg 90 d	
Aspira	ation toxicity			
<u>Produ</u> This ir	ict: nformation is not ava	ilable.		
Comp	oonents:			
	mineral oil (petrole	•		
No as	piration toxicity class	ification		





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Furth <u>Prod</u> Rema		: Information given is based on data the toxicology of similar products.	a on the components and

SECTION 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:		
White mineral oil (petroleum) Toxicity to fish): :	LC50 (Oncorhynchus mykiss (rainbow trout)): > 100 mg/l Exposure time: 96 h Test Type: static test Method: OECD Test Guideline 203
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia (water flea)): > 100 mg/l Exposure time: 48 h Test Type: Immobilization Method: OECD Test Guideline 202
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)	:	NOEC (Daphnia magna (Water flea)): >= 1,000 mg/l Exposure time: 21 d
Benzenamine, N-phenyl-, rea		ion products with 2,4,4-trimethylpentene:

Toxicity to fish	:	LC50 (Danio rerio (zebra fish)): > 100 mg/l
		Exposure time: 96 h





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			Test Type: static test Method: OECD Test Guideline 203	5
	ity to daphnia and oth tic invertebrates	ner :	EC50 (Daphnia magna (Water flea Exposure time: 48 h Test Type: static test Method: OECD Test Guideline 202	
Toxic plants	ity to algae/aquatic s	:	EC50 (Desmodesmus subspicatus Exposure time: 72 h Test Type: static test Method: OECD Test Guideline 201	
Persi	istence and degrada	bility		
Prod	uct:			
Biode	egradability	:	Remarks: No data available	
	Physico-chemical : removability		Remarks: No data available	
<u>Com</u>	ponents:			
White mineral oil (petroleum): Biodegradability :		eum): :	Primary biodegradation Inoculum: activated sludge Result: Not rapidly biodegradable Biodegradation: 31 % Exposure time: 28 d Method: OECD Test Guideline 301	В
Benz	enamine, N-phenyl-	, react	ion products with 2,4,4-trimethylp	entene:
Biode	egradability	:	aerobic Inoculum: activated sludge Result: Not rapidly biodegradable Biodegradation: 1 % Exposure time: 28 d Method: OECD Test Guideline 301 GLP: yes	В





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Bioa	ccumulative potentia	I		
Prod	uct:			
Bioad	ccumulation	:	Remarks: Product does not contair persistent, bioaccumulative, and to or higher. Product does not contain substanc persistent and very bioaccumulativ or higher.	xic (PBT) at levels of 0.1% es which are very
<u>Com</u>	ponents:			
Whit	e mineral oil (petroleu	ım):		
	tion coefficient: n- nol/water	:	Pow: > 6	
Benz	enamine, N-phenyl-,	react	ion products with 2,4,4-trimethylp	entene:
	tion coefficient: n- nol/water	:	log Pow: 5.2 - 10.82	
Mobi	ility in soil			
<u>Prod</u>	uct:			
Mobi	lity	:	Remarks: No data available	
	bution among onmental compartmen	: ts	Remarks: No data available	
Othe	r adverse effects			
<u>Prod</u>	uct:			
	ional ecological nation	:	No information on ecology is availa	ble.
	ponents:			
<u>Com</u>				
	e mineral oil (petroleu	im):		

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods	
Waste from residues	: The product should not be allowed to enter drains, water courses or the soil.





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		Do not dispose of with domestic Dispose of as hazardous waste national regulations.		
Contaminated packaging		the unused product.	the unused product. Dispose of waste product or used containers according to	

SECTION 14. TRANSPORT INFORMATION

International Regulations

UNRTDG

Not regulated as a dangerous good

IATA-DGR

Not regulated as a dangerous good

IMDG-Code

Not regulated as a dangerous good

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not applicable for product as supplied.

National Regulations

TDG Not regulated as a dangerous good

Special precautions for user

Not applicable

SECTION 15. REGULATORY INFORMATION

Canadian lists

No substances are subject to a Significant New Activity Notification.

SECTION 16. OTHER INFORMATION

Full text of other abbreviations

ACGIH	USA. ACGIH Threshold Limit Values (TLV)
CA AB OEL	Canada. Alberta, Occupational Health and Safety Code (table
	2: OEL)
CA BC OEL	Canada. British Columbia OEL
CA QC OEL :	Québec. Regulation respecting occupational health and





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	H / TWA B OEL / TWA	safety, Schedule 1, Part 1: Permis airborne contaminants : 8-hour, time-weighted average	

CA AB OEL / TWA:8-hour Occupational exposure limitCA AB OEL / STEL:15-minute occupational exposure limitCA BC OEL / TWA:8-hour time weighted averageCA QC OEL / TWAEV:Time-weighted average exposure value

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

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safety data sheets and any amendments contained therein to its own customers, employees and other users of the product. We provide no guarantee that safety data sheets received by users from third parties are up-to-date. All information and instructions in this safety data sheet have been compiled to the best of our knowledge and are based on the information available to us on the day of publication. The information provided is intended to describe the product in relation to the required safety measures; it is neither an assurance of characteristics nor a guarantee of the product's suitability for particular applications and does not justify any contractual legal relationship. The existence of a safety data sheet for a particular jurisdiction does not necessarily mean that import or use within that jurisdiction is legally permitted. If you have any questions, please contact your responsible sales contact or authorized trading partner.

