

DMO-32

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SECTION 1. IDENTIFICATION

Product name	DMO-32
Product name	DIVIO-3Z

Article-No. : 340381

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 number	:	+1-517-545-7070 NCEC
Recommended use of the cl Recommended use	hen :	nical and restrictions on use Lubricating oil

Restrictions on use : Restricted to professional users.

SECTION 2. HAZARDS IDENTIFICATION

GHS classification in accor 1910.1200)	dan	ce with the OSHA Hazard Communication Standard (29 CFR
Reproductive toxicity	:	Category 2
GHS label elements		
Hazard pictograms	:	
Signal word	:	Warning





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ision Date: 08/2022 ements ry statements		e of last issue: 10/18/2021 Print Date: e of first issue: 10/18/2021 09/08/2022 Suspected of damaging fertility. Suspected of damaging the unborn child. Prevention:
	:	unborn child. Prevention:
ry statements	:	
		Obtain an acial instructions hafare use
		Obtain special instructions before use. Do not handle until all safety precautions have been read an understood. Wear protective gloves/ protective clothing/ eye protection/ fa protection.
		Response:
		IF exposed or concerned: Get medical advice/ attention.
		Storage: Store locked up.
		Disposal:
		Dispose of contents/ container to an approved waste dispose plant.
	rds	rds

None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture	Mixture
Substance / IVIIXture	wixture

Chemical nature : ester oil

Components

Chemical name	CAS-No.	Concentration (% w/w)
Benzenamine, N-phenyl-, reaction	68411-46-1	Trade secret (>= 1 - < 5)
products with 2,4,4-trimethylpentene		
reaction mass of:	192268-65-8	Trade secret (>= 0.1 - < 1)
triphenylthiophosphate and tertiary		
butylated phenyl derivatives		
Actual concentration is withhold as a t	rada acarat	

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 unconscious, place in recovery position and seek medical advice.





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		Keep respiratory tract clear. If breathing is irregular or stopped respiration.	d, administer artificial
In cas	e of skin contact	 Take off all contaminated clothing Get medical attention immediately persists. Wash clothing before reuse. Thoroughly clean shoes before re Wash off immediately with plenty 	y if irritation develops and euse.
In cas	e of eye contact	: Rinse immediately with plenty of for at least 10 minutes. If eye irritation persists, consult a	
lf swa	llowed	 Move the victim to fresh air. If unconscious, place in recovery advice. Keep respiratory tract clear. Do NOT induce vomiting. Obtain medical attention. Rinse mouth with water. Never give anything by mouth to a 	
	important symptoms ffects, both acute and ed	: No information available. None known.	
Notes	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
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.





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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

Contains no substances with occupational exposure limit values.

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.						
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 at the specific workplace.						
Hygiene measures	:	Wash face, hands and any exposed skin thoroughly after handling.						

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	liquid
Colour	:	colourless
Odour	:	characteristic
Odour Threshold	:	No data available





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pН		:	Not applicable	
Ме	lting point/range	:	No data available	
Boi	iling point/boiling range	:	No data available	
Fla	sh point	:	505 °F / 263 °C	
			Method: ASTM D 92, Cleveland open cu	qu
Eva	aporation rate	:	No data available	
Fla	mmability (solid, gas)	:	Not applicable	
Se	lf-ignition	:	No data available	
	per explosion limit / Upper nmability limit	:	No data available	
	wer explosion limit / Lower mmability limit	:	No data available	
Va	pour pressure	:	< 0.001 hPa (68 °F / 20 °C)	
Re	lative vapour density	:	No data available	
Re	lative density	:	0.915 (68 °F / 20 °C) Reference substance: Water The value is calculated	
Bul	lk density	:	No data available	
	lubility(ies) Water solubility	:	insoluble	
	Solubility in other solvents	s :	No data available	
	rtition coefficient: n- anol/water	:	No data available	
Aut	to-ignition temperature	:	No data available	
De	composition temperature	:	No data available	
	cosity Viscosity, dynamic	:	No data available	
	Viscosity, kinematic	:	32 mm2/s (104 °F / 40 °C)	





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Explos	ive properties	: Not explosive	
Oxidizing properties Sublimation point		No data availableNo 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.
Acute inhalation toxicity	:	Remarks: This information is not available.
Acute dermal toxicity	:	Remarks: This information is not available.

Components:

Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene:					
Acute oral toxicity	:	LD50 (Rat): > 5,000 mg/kg Method: OECD Test Guideline 401			
Acute dermal toxicity	:	LD50 (Rat): > 2,000 mg/kg Method: OECD Test Guideline 402 Assessment: The substance or mixture has no acute dermal toxicity			

reaction mass of: triphenylthiophosphate and tertiary butylated phenyl derivatives:



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Acute	oral toxicity	 LD50 (Rat): > 2,000 mg/kg Method: EC Directive 92/69/EE GLP: yes Assessment: The substance or toxicity 	
Acute	dermal toxicity	 LD50 (Rat): > 2,000 mg/kg Method: OECD Test Guideline GLP: yes Assessment: The substance or toxicity 	
Skin	corrosion/irritation		
Produ	uct:		
Rema	arks	: This information is not available	9.
<u>Com</u>	oonents:		
		-, reaction products with 2,4,4-trimeth	ylpentene:
Speci		: Rabbit	
	ssment	: No skin irritation	
Metho Resul		: OECD Test Guideline 404 : No skin irritation	
Speci	es ssment od	nylthiophosphate and tertiary butylate Rabbit No skin irritation Tested according to Directive 9 No skin irritation yes	
Serio	us eye damage/eye	eirritation	
Produ	uct:		
Rema	arks	: This information is not available	2.
<u>Com</u>	oonents:		
		-, reaction products with 2,4,4-trimeth	ylpentene:
Speci		: Rabbit	
Resul		: No eye irritation	
Asses	ssment od	: No eye irritation : OECD Test Guideline 405	
react	ion mass of: triphe	nylthiophosphate and tertiary butylate	ed phenyl derivatives:
Speci	-	: Rabbit	· · ·····
Resul		: No eye irritation	
		8 / 18	a brand of





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٨٠٠٠	ssment		No ovo irritotion	
Metho		:	No eye irritation Tested according to Directive 92/6	9/FFC
GLP		:	yes	
Resp	iratory or skin sens	itisatio	on	
Prod	uct:			
Rema	arks	:	This information is not available.	
<u>Com</u>	oonents:			
Benz	enamine, N-phenyl-	, react	on products with 2,4,4-trimethylp	pentene:
Speci		:	Guinea pig	
	ssment	:	Did not cause sensitisation on labo	oratory animals.
Metho		:	OECD Test Guideline 406	
Resu	Л	:	Did not cause sensitisation on labo	oratory animals.
react	ion mass of: tripher	nylthio	phosphate and tertiary butylated	phenyl derivatives:
Test		:	Maximisation Test	
Speci		:	Guinea pig	
	ssment	:	Does not cause skin sensitisation.	
Metho		:	Tested according to Directive 92/6	
Resul GLP	IC	:	Does not cause skin sensitisation. yes	
Germ	cell mutagenicity			
Prod	uct:			
Geno	toxicity in vitro	:	Remarks: No data available	
Geno	toxicity in vivo	:	Remarks: No data available	
Com	oonents:			
react	ion mass of: tripher	nylthio	phosphate and tertiary butylated	• •
Geno	toxicity in vitro	:	Test Type: Chromosome aberration Test system: Chinese hamster fibr Metabolic activation: with and with Method: Mutagenicity (in vitro man Result: negative GLP: yes	roblasts out metabolic activation
	cell mutagenicity - ssment	:	Animal testing did not show any m	utagenic effects.
Carci	nogenicity			
Prod	uct:			





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Rema	arko			No data available	
Reine	11115		•	NU Uala avaliable	
IARC				this product present at levels g able, possible or confirmed hum	
-				this product present at levels g regulated carcinogens.	reater than or equal to 0.1%
NTP				this product present at levels g own or anticipated carcinogen b	
Repr	oductive t	oxicity			
Prod	uct:				
Effect	ts on fertilit	y	:	Remarks: No data available	
	ts on foeta opment	I	:	Remarks: No data available	
<u>Com</u>	ponents:				
Benz	enamine,	N-phenyl-, r	eacti	on products with 2,4,4-trimet	hylpentene:
•	oductive to	xicity -	:	- Fertility -	
Asse	ssment			Some evidence of adverse effective for the second s	
react	ion mass	of: tripheny	lthio	phosphate and tertiary butyla	ted phenyl derivatives:
	ts on foeta	l	:	Species: Rat	
devel	opment			Application Route: Oral General Toxicity Maternal: NO Developmental Toxicity: NOAE Symptoms: Skeletal malforma Target Organs: Skeleton Method: OECD Test Guideline Result: Embryotoxic effects an offspring were detected.	EL: 150 mg/kg body weight tions • 414
		xicity -	:	- Fertility -	
	oductive to			Some evidence of adverse eff	
Asses	oductive to ssment			animal experiments.	ects on development, based
		toxicity			ects on development, basec
	ssment ated dose	toxicity			ects on development, based





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Components:

reaction mass of: triphenylthiophosphate and tertiary butylated phenyl derivatives:

Species	: Rat
NOAEL	: 50 mg/kg
Application Route	: Oral
Exposure time	: 28 d
Method	: OECD Test Guideline 407

Aspiration toxicity

Product:

This information is not available.

Further information

Product:

Remarks

: Information given is based on data on the components and the toxicology of similar products.

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Product:

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:

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

Toxicity to fish	: LC50 (Danio rerio (zebra fish)): > 100 mg/l
	Exposure time: 96 h
	Test Type: static test
	Method: OECD Test Guideline 203





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	oxicity to daphnia and othe uatic invertebrates	er :	EC50 (Daphnia magna (Water flea Exposure time: 48 h Test Type: static test Method: OECD Test Guideline 202	
	exicity to algae/aquatic	:	EC50 (Desmodesmus subspicatus Exposure time: 72 h Test Type: static test Method: OECD Test Guideline 201	
	action mass of: tripheny exicity to fish		bhosphate and tertiary butylated LC50 (Danio rerio (zebra fish)): > 7 Exposure time: 96 h Test Type: semi-static test Method: OECD Test Guideline 203 GLP: yes	100 mg/l
	oxicity to daphnia and othe uatic invertebrates	er :	EC50 (Daphnia magna (Water flea Exposure time: 48 h Test Type: static test Method: OECD Test Guideline 202 GLP: yes	
	oxicity to algae/aquatic ants	:	EC50 (Desmodesmus subspicatus Exposure time: 72 h Test Type: static test Method: OECD Test Guideline 201 GLP: yes	
			NOEC (Desmodesmus subspicatu Exposure time: 72 h Method: OECD Test Guideline 201	
aq	exicity to daphnia and othe uatic invertebrates hronic toxicity)	er :	NOEC (Daphnia magna (Water fle Exposure time: 21 d Test Type: Reproduction Test Method: OECD Test Guideline 211 GLP: yes	
To	oxicity to microorganisms	:	EC20 (activated sludge): 403 mg/l Exposure time: 3 h Test Type: static test Method: OECD Test Guideline 209)
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		GLP: yes	
	oxicology Assessme		
Chror	nic aquatic toxicity	: May cause long lasting ha	rmful effects to aquatic life.
Persi	stence and degrada	pility	
Prod	uct:		
Biode	egradability	: Remarks: No data availabl	e
	co-chemical vability	: Remarks: No data availabl	e
<u>Com</u>	ponents:		
Benz	enamine, N-phenyl-	reaction products with 2,4,4-trin	methylpentene:
Biode	gradability	: aerobic Inoculum: activated sludge Result: Not rapidly biodegr Biodegradation: 1 % Exposure time: 28 d Method: OECD Test Guide GLP: yes	radable
react	ion mass of: triphen	ylthiophosphate and tertiary but	tylated phenyl derivatives:
	egradability	: anaerobic Result: Not rapidly biodegr Biodegradation: 0 % Exposure time: 28 d Method: OECD Test Guide GLP: yes	radable
Bioad	ccumulative potentia	I	
Prod			
	cumulation	be persistent, bioaccumula	ubstance considered to be very





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<u>Com</u>	oonents:			
Benz	enamine, N-phenyl-, re	eacti	on products with 2,4,4-trimethylpe	entene:
	ion coefficient: n- ol/water	:	log Pow: > 5	
	ion mass of: triphenyl cumulation	thio	phosphate and tertiary butylated pl	•
вюас	cumulation	-	Bioconcentration factor (BCF): > 500	0
	ion coefficient: n- ol/water	:	log Pow: 4.8 - 7.0 (72 °F / 22 °C) pH: 6.7	
			Method: OECD Test Guideline 117 GLP: yes	
Mobil	lity in soil			
<u>Produ</u>				
Mobili	ity	:	Remarks: No data available	
	oution among onmental compartments	:	Remarks: No data available	
Other	adverse effects			
Produ	uct:			
Ozon	e-Depletion Potential	:	Regulation: 40 CFR Protection of Er Protection of Stratospheric Ozone - Substances Remarks: This product neither conta manufactured with a Class I or Class	CAA Section 602 Class ains, nor was s II ODS as defined by th
			U.S. Clean Air Act Section 602 (40 (B).	сгк 82, Suppt. A, App.A
Additi inform	onal ecological nation	:	No information on ecology is availab	ble.
Com	oonents:			
	ion mass of: triphenyl Its of PBT and vPvB	thio	phosphate and tertiary butylated pl Non-classified PBT substance Non-	-





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SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods Waste from residues	 The product should not be allowed to enter drains, water courses or the soil. Do not dispose of with domestic refuse.
Contaminated packaging	Dispose of as hazardous waste in compliance with local and national regulations.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

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

CERCLA Reportable Quantity

This material does not contain any components with a CERCLA RQ.

SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

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



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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).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 111 SOCMI Intermediate or Final VOC's (40 CFR 60.489).

Clean Water Act

This product does not contain any Hazardous Substances listed under the U.S. CleanWater Act, Section 311, Table 116.4A.

This product does not contain any Hazardous Chemicals listed under the U.S. CleanWater Act, Section 311, Table 117.3.

This product does not contain any toxic pollutants listed under the U.S. Clean Water Act Section 307

This product does not contain any priority pollutants related to the U.S. Clean Water Act

US State Regulations

Massachusetts Right To Know	
Benzenamine, N-phenyl-, reaction products with 2,4,4- trimethylpentene	68411-46-1
Pennsylvania Right To Know	
diisotridecyl adipate	26401-35-4
Maine Chemicals of High Concern	
Benzenamine, N-phenyl-, reaction products with 2,4,4- trimethylpentene	68411-46-1
Vermont Chemicals of High Concern	
Benzenamine, N-phenyl-, reaction products with 2,4,4- trimethylpentene	68411-46-1
Washington Chemicals of High Concern	
Benzenamine, N-phenyl-, reaction products with 2,4,4- trimethylpentene	68411-46-1
New York City Hazardous Substances	
White mineral oil (petroleum) Lubricating oils (petroleum), C15-30, hydrotreated neutral oil- based	8042-47-5 72623-86-0
Distillates (petroleum), hydrotreated middle Solvent naphtha (petroleum), heavy arom.	64742-46-7 64742-94-5

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.





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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

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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