

Version 1.0	Revision Date: 06/15/2022	Date of last issue: - Date of first issue: 06/15/2022	Print Date: 06/16/2022
SECTION	1. IDENTIFICATION		
Produ	uct name	: SumTech Multi-Red 220	
Article	e-No.	: 340541	
Manu	ufacturer or supplier's	details	
Comp	pany 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 Material Compliance Managemen	t
Emer ber	gency telephone num-	: +1-517-545-7070 NCEC	
Reco	mmended use of the	chemical and restrictions on use	
Reco	mmended use	: Raw material	
Restr	ictions on use	: Restricted to professional users.	

SECTION 2. HAZARDS IDENTIFICATION

GHS classification in accordance with the OSHA Hazard Communication Standard (29 CFR 1910.1200)				
Eye irritation	:	Category 2A		
GHS label elements				
Hazard pictograms	:			
Signal word	:	Warning		
Hazard statements	:	Causes serious eye irritation.		
			a brand of	





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Preca	autionary statements	• Prevention: Wash skin thoroughly after handlir Wear eye protection/ face protection	
		Response: IF IN EYES: Rinse cautiously with Remove contact lenses, if present rinsing. If eye irritation persists: Get medic	and easy to do. Continue
Othe	r hazards		
None	known.		

Substance / Mixture	: Mixture
Chemical nature	: Grease Mineral oil.

Components

-		
Chemical name	CAS-No.	Concentration (% w/w)
Distillates (petroleum), solvent- dewaxed heavy paraffinic	64742-65-0	Trade secret (>= 30 - < 60)
Mineral oil	64742-52-5	Trade secret (>= 10 - < 30)
Residual oils (petroleum), solvent- refined	64742-01-4	Trade secret (>= 10 - < 30)
Phosphorodithioic acid, mixed O,O- bis(iso-Bu and pentyl) esters, zinc salts	68457-79-4	Trade secret (>= 1 - < 5)
tributyl borate	688-74-4	Trade secret (>= 1 - < 5)
Actual concentration is withhold on a	trada acarat	

Actual concentration is withheld as a trade secret

SECTION 4. FIRST AID MEASURES

If inhaled	:	Remove person to fresh air. If sign medical attention. Keep patient warm and at rest. If breathing is irregular or stopped, tion.	
In case of skin contact	:	Remove contaminated clothing. If i ical attention. Wash off with soap and water.	irritation develops, get med-
In case of eye contact	:	Rinse immediately with plenty of w	ater, also under the eyelids,
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			for at least 10 minutes. If eye irritation persists, consult a speci	alist.
If swallowed		:	Move the victim to fresh air. Do not induce vomiting without medical	advice.
Most important symptoms and effects, both acute and delayed		:	No information available. None known.	
Notes	s to physician	:	No information available.	

SECTION 5. FIREFIGHTING MEASURES

Suitable extinguishing media	:	Use water spray, alcohol-resistant foam, dry chemical or car- bon dioxide.
Unsuitable extinguishing media	:	High volume water jet
Hazardous combustion prod-	:	Carbon oxides Nitrogen oxides (NOx) Sulphur oxides Metal 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.

SECTION 6. ACCIDENTAL RELEASE MEASURES

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





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SECTION 7. HANDLING AND STORAGE

Advice on safe handling	:	For personal protection see section 8. Smoking, eating and drinking should be prohibited in the ap- plication 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 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.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parame- ters / Permissible concentration	Basis
Distillates (petroleum), solvent- dewaxed heavy paraffinic	64742-65-0	TWA (Inhal- able particu- late 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)
Mineral oil	64742-52-5	TWA (Inhal- able particu- late 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)
Residual oils (petroleum), sol- vent-refined	64742-01-4	TWA (Inhal- able particu-	5 mg/m3	ACGIH (2013-03-01)





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I		I	late matter)		
			TWA (Mist)	5 mg/m3	OSHA Z-1

				5 mg/m5	(2010 02 15)	
				- / -	(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	:	local exhaust volved in han	ventilation and dling of this pro- plosion suppre	st control equipmer material transport s duct contain explos ssion system or an	systems in- ion relief	
Personal protective equipr	nent					
Respiratory protection	:	Not required;	except in case	of aerosol formatior	۱.	
Filter type	:	Filter type P				
Hand protection						
Material	:	Fluorinated ru	ıbber			
Break through time	÷	> 10 min				
Protective index		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 glasse	s with side-shie	lds		
Skin and body protection	:	Choose body protection in relation to its type, to the concen- tration and amount of dangerous substances, and to the spe- cific 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 : solid

Colour : red





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	Odour		:	oily	
	Odour	Threshold	:	No data available	
	рН		:	Not applicable substance/mixture is non-soluble (in wat	er)
	Boiling	point/boiling range	:	640 °F / 338 °C	
	Flash p	point	:	> 302 °F / 150 °C	
				Method: open cup	
	Evapor	ration rate	:	No data available	
	Flamm	ability (solid, gas)	:	Not applicable	
	Self-ig	nition	:	No data available	
		explosion limit / Upper ability limit	:	No data available	
		explosion limit / Lower ability limit	:	No data available	
	Vapou	r pressure	:	0.0000001 hPa (68 °F / 20 °C)	
	Relativ	e vapour density	:	No data available	
	Relativ	e density	:	0.906 (68 °F / 20 °C) Reference substance: Water The value is calculated	
	Bulk de	ensity	:	No data available	
	Solubil Wa	ity(ies) ter solubility	:	immiscible	
	Sol	ubility in other solvents	5 :	No data available	
	Partitio octano	n coefficient: n- I/water	:	No data available	
	Auto-ig	nition temperature	:	No data available	
	Decom	position temperature	:	No data available	





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	osity scosity, dynamic scosity, kinematic	 No data available 220 mm2/s (104 °F / 40 °C) 	
Explo	osive properties	: Not explosive	
	zing properties mation 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 reac- tions	:	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	:	Acute toxicity estimate: > 5,000 mg/kg Method: Calculation method
Acute inhalation toxicity	:	Remarks: This information is not available.
Acute dermal toxicity	:	Acute toxicity estimate: > 5,000 mg/kg Method: Calculation method

Components:

Distillates (petroleum), solve	ent	-dewaxed heavy paraffinic:
Acute oral toxicity	:	LD50 (Rat): > 5,000 mg/kg
Acute dermal toxicity	:	LD50 (Rat): > 5,000 mg/kg





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Mine	ral oil:						
Acute	e oral toxicity	:	LD50 (Rat): > 5,000 mg/kg				
Acute	Acute dermal toxicity		: LD50 (Rabbit): > 2,000 mg/kg				
Resid	dual oils (petroleun	n), solver	nt-refined:				
Acute	e oral toxicity		LD50 (Rat): > 5,000 mg/kg Method: OECD Test Guideline 40	1			
Acute	Acute dermal toxicity		: LD50 (Rabbit): > 5,000 mg/kg Method: OECD Test Guideline 402 GLP: yes				
Phos	phorodithioic acid,	mixed C),O-bis(iso-Bu and pentyl) ester	s, zinc salts:			
Acute	e oral toxicity		LD50 (Rat): 3,600 mg/kg Method: OECD Test Guideline 40	1			
Acute	e dermal toxicity		LD50 (Rabbit): > 20,000 mg/kg Method: OECD Test Guideline 40	2			
tribut	yl borate:						
Acute	e oral toxicity		Assessment: The component/mix single ingestion.	ture is moderately toxic after			
Skin	corrosion/irritation						
Prod	uct:						
Rema	arks	:	This information is not available.				
<u>Com</u>	ponents:						
Resid	dual oils (petroleun	n), solver	nt-refined:				
Speci			Rabbit				
Asses Resul	ssment It		No skin irritation No skin irritation				
Phos	nhorodithioic acid	mixed (),O-bis(iso-Bu and pentyl) ester	e zinc calte:			
Speci	-		Rabbit	5, 2mc 3an3.			
•	ssment		Irritating to skin.				
Resu			Irritating to skin.				
tribut	tyl borate:						
	ssment		Irritating to skin.				
Resu	It	:	Irritating to skin.				





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Serio	us eye damage/eye	e irritation	
Produ	uct:		
Rema	arks	: Irritating to eyes.	
Com	oonents:		
		n), solvent-refined:	
Speci		: Rabbit	
Resul		: No eye irritation	
	ssment	: No eye irritation	
Phos	phorodithioic acid	mixed O,O-bis(iso-Bu and pentyl) es	sters, zinc salts:
Speci		: Rabbit	
Resu		: Risk of serious damage to eye	
Asses	ssment	: Risk of serious damage to eye	S.
tribut	yl borate:		
Resu	lt	: Irritating to eyes.	
Asses	ssment	: Irritating to eyes.	
Resp	iratory or skin sen	sitisation	
Prod			
Rema	arks	: This information is not available	е.
<u>Com</u>	<u>oonents:</u>		
Resid	lual oils (petroleun	n), solvent-refined:	
Speci		: Guinea pig	
	ssment	: Did not cause sensitisation on	· · ·
Resu	It	: Did not cause sensitisation on	laboratory animals.
Phos	phorodithioic acid	mixed O,O-bis(iso-Bu and pentyl) es	sters, zinc salts:
Test		: Buehler Test	
Speci		: Guinea pig	·
	ssment	: Does not cause skin sensitisat	ion.
Metho Resul		: OECD Test Guideline 406 : Does not cause skin sensitisat	ion
GLP	it.	: yes	юп.
tribut	yl borate:		
Test ⁻	-	: Buehler Test	
Speci		: Guinea pig	
	ssment	: Does not cause skin sensitisat	ion.
Metho	bd	: OECD Test Guideline 406	
Resu	lt	: Does not cause skin sensitisat	ion.
GLP		: yes	
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Germ o	cell mutagenicity		
Produc	ct:		
	oxicity in vitro	: Remarks: No data available	
Genoto	oxicity in vivo	: Remarks: No data available	
Carcin	ogenicity		
<u>Produc</u>	<u>ct:</u>		
Remar	ks	: No data available	
Compo	onents:		
Distilla	ates (petroleum), s	olvent-dewaxed heavy paraffinic:	
Carcino ment	ogenicity - Assess-	: Not classifiable as a human	carcinogen.
IARC		nent of this product present at levels s probable, possible or confirmed hu	
IARC OSHA		nent of this product present at levels list of regulated carcinogens.	greater than or equal to 0.1% is
NTP		nent of this product present at levels s a known or anticipated carcinogen	
Repro	ductive toxicity		
Produc	ct:		
Effects	on fertility	: Remarks: No data available	
Effects ment	on foetal develop-	: Remarks: No data available	
STOT	- single exposure		
Compo	onents:		
tributy	l borate:		
Assess	sment	: May cause respiratory irritati	ion.
Repea	ted dose toxicity		
<u>Produc</u> Remar		: This information is not availa	able.





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Aspiration toxicity

Product:

This information is not available.

Components:

Mineral oil:

May be fatal if swallowed and enters airways.

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
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Components:

Distillates (petroleum), solvent-dewaxed heavy paraffinic:

Toxicity to fish	: LC50 (Pimephales promelas (fathead minnow)): > 100 mg/l Exposure time: 96 h Test Type: static test

Toxicity to daphnia and other	:	EC50 (Daphnia magna (Water flea)): > 10,000 mg/l
aquatic invertebrates		Exposure time: 48 h
		Test Type: Immobilization





I oil: to fish al oils (petroleum), s to fish to daphnia and other invertebrates	:	LC50 (Fish): > 30,000 mg/l Exposure time: 96 h ent-refined: LC50 (Pimephales promelas (fathe Exposure time: 96 h Test Type: static test	ad minnow)): > 100 mg/l
to fish to daphnia and other	:	LC50 (Pimephales promelas (fathe Exposure time: 96 h	ad minnow)): > 100 mg/l
to fish to daphnia and other	:	LC50 (Pimephales promelas (fathe Exposure time: 96 h	ead minnow)): > 100 mg/l
	:		
		EC50 (Daphnia magna (Water flea Exposure time: 48 h Test Type: static test Method: OECD Test Guideline 202	
n orodithioic acid, mi to fish	xed :	O,O-bis(iso-Bu and pentyl) esters LC50 (Cyprinodon variegatus (shee Exposure time: 96 h Test Type: semi-static test Method: OECD Test Guideline 203 GLP: yes	epshead minnow)): 46 m
to daphnia and other invertebrates	:	EC50 (Daphnia magna (Water flea Exposure time: 48 h Test Type: static test Method: OECD Test Guideline 202 GLP: yes	-
to algae/aquatic	:	(Desmodesmus subspicatus (gree Exposure time: 72 h Test Type: static test Method: OECD Test Guideline 201 GLP: yes	
to daphnia and other invertebrates (Chron- ty)		NOEC (Daphnia magna (Water flea Exposure time: 21 d Method: OECD Test Guideline 211 GLP: yes	
	to fish to daphnia and other invertebrates to algae/aquatic to daphnia and other invertebrates (Chron- ty)	to fish : to daphnia and other invertebrates : to algae/aquatic : to daphnia and other invertebrates (Chron- ty)	 Exposure time: 96 h Test Type: semi-static test Method: OECD Test Guideline 203 GLP: yes to daphnia and other invertebrates EC50 (Daphnia magna (Water flea Exposure time: 48 h Test Type: static test Method: OECD Test Guideline 202 GLP: yes to algae/aquatic (Desmodesmus subspicatus (gree Exposure time: 72 h Test Type: static test Method: OECD Test Guideline 201 GLP: yes to daphnia and other invertebrates (Chron- ty) NOEC (Daphnia magna (Water flea Exposure time: 21 d Method: OECD Test Guideline 211

Product:

Biodegradability	:	Remarks: No data available





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Physi ity	ico-chemical removabil-	• :	Remarks: No data available	
Com	ponents:			
Distil	llates (petroleum), sol	vent	-dewaxed heavy paraffinic:	
	egradability	:		
Resid	dual oils (petroleum),	solv	ent-refined:	
Biode	egradability	:	Result: Not rapidly biodegradable	
	-	ixed	O,O-bis(iso-Bu and pentyl) ester	s, zinc salts:
Biode	egradability	:	aerobic Inoculum: activated sludge, non-a Result: Not rapidly biodegradable Biodegradation: 1.5 % Exposure time: 28 d	dapted
Bioa	ccumulative potential			
Prod	uct:			
Bioac	ccumulation	:	Remarks: This mixture contains no be persistent, bioaccumulating and This mixture contains no substance persistent and very bioaccumulation	d toxic (PBT). e considered to be very
<u>Com</u>	ponents:			
Mine	ral oil:			
Bioac	ccumulation	:	Remarks: This substance is not co bioaccumulating and toxic (PBT). This substance is not considered to very bioaccumulating (vPvB).	·
Mobi	lity in soil			
<u>Prod</u> Mobil		:	Remarks: No data available	
	bution among environ- al compartments	:	Remarks: No data available	
	r adverse effects			
<u>Prod</u>	uct:			
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(Ozone	-Depletion Potential	:	Regulation: 40 CFR Protection of Environ tection of Stratospheric Ozone - CAA Se Substances Remarks: This product neither contains, tured with a Class I or Class II ODS as d Clean Air Act Section 602 (40 CFR 82, S	ction 602 Class I nor was manufac- efined by the U.S.
	Additio mation	nal ecological infor-	:	No information on ecology is available.	

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

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

SECTION 15. REGULATORY INFORMATION

CERCLA Reportable Quantity

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





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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	:	Serious eye damage or eye irritation	
SARA 313	:	The following components are subject to reporting levels es tablished by SARA Title III, Section 313:	
		Phosphorodithio- 68457-79-4 >= 1 - < 5 % ic acid, mixed O,O-bis(iso-Bu and pentyl) es- ters, zinc salts	

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 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).

The following chemical(s) are listed under the U.S. Clean Air Act Section 111 SOCMI Intermediate or Final VOC's (40 CFR 60.489):

Butene, polymers	9003-29-6	>= 5 - < 10 %
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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 contains the following toxic pollutants listed under the U.S. Clean Water Act Section 307

Phosphorodithioic acid, 68457-79-4 >= 1 - < 5 % mixed O,O-bis(iso-Bu and pentyl) esters, zinc salts

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

US State Regulations

Penn

Massachusetts Right To Know

Distillates (petroleum), solvent-dewaxed heavy paraffinic Mineral oil Residual oils (petroleum), solvent-refined tributyl borate	64742-65-0 64742-52-5 64742-01-4 688-74-4
nsylvania Right To Know	
Distillates (petroleum), solvent-dewaxed heavy paraffinic	64742-65-0
Mineral oil	64742-52-5
Residual oils (petroleum), solvent-refined	64742-01-4





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	Butene, polyme	oic acid, mixed O,O-bis(iso-Bu and pentyl)	68815-49-6 9003-29-6 68457-79-4 688-74-4
Main	e Chemicals of Hig Product does n	h Concern ot contain any listed chemicals	
Verm	ont Chemicals of H	-	
	Product does n	ot contain any listed chemicals	
Wash	nington Chemicals	-	
	Product does n	ot contain any listed chemicals	
New	York City Hazardou	is Substances	
	Mineral oil Phosphorodithi esters, zinc sali	oic acid, mixed O,O-bis(iso-Bu and pentyl)	64742-52-5 68457-79-4
Calif	ornia Prop. 65		
	product does not cor cts, or any other repre	tain any chemicals known to State of Californ oductive harm.	ia to cause cancer, birth
Calif	ornia List of Hazard	lous Substances	
	Mineral oil Phosphorodithi esters, zinc sali	oic acid, mixed O,O-bis(iso-Bu and pentyl) ts	64742-52-5 68457-79-4
Calif	ornia Permissible E	xposure Limits for Chemical Contaminant	S
	Mineral oil	oleum), solvent-dewaxed heavy paraffinic etroleum), solvent-refined	64742-65-0 64742-52-5 64742-01-4

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 P0	:	USA. Table Z-1-A Limits for Air Contaminants (1989 vacated values)
OSHA Z-1	:	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Lim- its for Air Contaminants
ACGIH / TWA	:	8-hour, time-weighted average
NIOSH REL / TWA	-	Time-weighted average concentration for up to a 10-hour workday during a 40-hour workweek
NIOSH REL / ST	:	STEL - 15-minute TWA exposure that should not be exceeded at any time during a workday
OSHA P0 / TWA	:	8-hour time weighted average
OSHA Z-1 / TWA		8-hour time weighted average





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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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