

Versi 3.0	on	Revision Date: 10/16/2017		95 Number: 9143-00009	Date of last issue: 05/23/2017 Date of first issue: 11/28/2014		
SECT	SECTION 1. IDENTIFICATION						
F	Product	t name	:	MOLYKOTE™ M	ultilub High Performance Grease		
F	Product	t code	:	01746103			
I	Manufa	acturer or supplier's o	deta	ils			
(Compa	ny Identification	:	THE DOW CHEM 2030 DOW CENT MIDLAND MI 486 UNITED STATES	ER 674-0000		
-	Telepho	one	:	800-258-2436			
2	24-Hou	r Emergency Contact	:	Chemtrec +1 800)-424-9300		
l	Local E	mergency Number	:	800-424-9300			
E	E-mail a	address	:	SDSQuestion@do	ow.com		
F	Recommended use of the chemical and restrictions on use						
F	Recom	mended use	:	Lubricants and lub	pricant additives		

SECTION 2. HAZARDS IDENTIFICATION

GHS classification in accordance with 29 CFR 1910.1200				
Eye irritation	:	Category 2A		
GHS label elements Hazard pictograms	:			
Signal Word	:	Warning		
Hazard Statements	:	H319 Causes serious eye irritation.		
Precautionary Statements	:	Prevention: P264 Wash skin thoroughly after handling. P280 Wear eye protection/ face protection.		
		Response: P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P337 + P313 If eye irritation persists: Get medical advice/ atten- tion.		



Version	Revision Date:	SDS Number:	Date of last issue: 05/23/2017
3.0	10/16/2017	849143-00009	Date of first issue: 11/28/2014

Other hazards

None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Chemical nature : Organic grease

Hazardous ingredients

Chemical name	CAS-No.	Concentration (% w/w)
Distillates (petroleum), hydrotreated heavy naphthenic	64742-52-5	>= 41 - <= 49
Distillates (petroleum), solvent-dewaxed heavy paraffinic	64742-65-0	>= 40 - <= 50
12-Hydroxy lithium stearate	7620-77-1	>= 5 - <= 7
Zinc (C1-C14) Dialkyldithiophosphate	68649-42-3	>= 1.5 - <= 1.9

SECTION 4. FIRST AID MEASURES

General advice	:	In the case of accident or if you feel unwell, seek medical advice immediately. When symptoms persist or in all cases of doubt seek medical advice.
If inhaled	:	If inhaled, remove to fresh air. Get medical attention if symptoms occur.
In case of skin contact	:	Wash with water and soap as a precaution. Get medical attention if symptoms occur.
In case of eye contact	:	In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. If easy to do, remove contact lens, if worn. Get medical attention.
If swallowed	:	If swallowed, DO NOT induce vomiting. Get medical attention if symptoms occur. Rinse mouth thoroughly with water.
Most important symptoms and effects, both acute and delayed	:	Causes serious eye irritation.
Protection of first-aiders	:	First Aid responders should pay attention to self-protection, and use the recommended personal protective equipment when the potential for exposure exists.
Notes to physician	:	Treat symptomatically and supportively.

MOLYKOTE™ Multilub High Performance Grease



Version 3.0	Revision Date: 10/16/2017		DS Number: 9143-00009	Date of last issue: 05/23/2017 Date of first issue: 11/28/2014
SECTIC	N 5. FIRE-FIGHTING ME	ASL	JRES	
Sui	table extinguishing media	:	Water spray Alcohol-resistant Carbon dioxide (C Dry chemical	
	suitable extinguishing dia	:	None known.	
	ecific hazards during fire nting	:	Exposure to com	pustion products may be a hazard to health.
Ha uct	zardous combustion prod- s	:	Carbon oxides Metal oxides Oxides of phosph Sulfur oxides	orus

Use extinguishing measures that are appropriate to local cir-

Remove undamaged containers from fire area if it is safe to do

In the event of fire, wear self-contained breathing apparatus.

cumstances and the surrounding environment.

Use water spray to cool unopened containers.

Use personal protective equipment.

SECTION 6. ACCIDENTAL RELEASE MEASURES

:

so.

Evacuate area.

Specific extinguishing meth-

Special protective equipment :

ods

for fire-fighters

Personal precautions, protec- tive equipment and emer- gency procedures	:	Use personal protective equipment. Follow safe handling advice and personal protective equipment recommendations.
Environmental precautions	:	Discharge into the environment must be avoided. Prevent further leakage or spillage if safe to do so. Retain and dispose of contaminated wash water. Local authorities should be advised if significant spillages cannot be contained.
Methods and materials for containment and cleaning up	:	Soak up with inert absorbent material. For large spills, provide diking or other appropriate containment to keep material from spreading. If diked material can be pumped, store recovered material in appropriate container. Clean up remaining materials from spill with suitable absorbent. Local or national regulations may apply to releases and disposal of this material, as well as those materials and items employed in the cleanup of releases. You will need to determine which regulations are applicable. Sections 13 and 15 of this SDS provide information regarding certain local or national requirements.



Version	Revision Date:	SDS Number:	Date of last issue: 05/23/2017
3.0	10/16/2017	849143-00009	Date of first issue: 11/28/2014

SECTION 7. HANDLING AND STORAGE

Technical measures	:	See Engineering measures under EXPOSURE CONTROLS/PERSONAL PROTECTION section.
Local/Total ventilation	:	Use only with adequate ventilation.
Advice on safe handling	:	Do not swallow. Do not get in eyes. Avoid prolonged or repeated contact with skin. Handle in accordance with good industrial hygiene and safety practice. Take care to prevent spills, waste and minimize release to the environment.
Conditions for safe storage	:	Keep in properly labeled containers. Store in accordance with the particular national regulations.
Materials to avoid	:	Do not store with the following product types: Strong oxidizing agents

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Ingredients with workplace control parameters

Ingredients	CAS-No.	Value type (Form of exposure)	Control parame- ters / Permissible concentration	Basis
Distillates (petroleum), hydrotreated heavy naphthenic	64742-52-5	TWA (Mist)	5 mg/m³	OSHA Z-1
		TWA (Inhal- able fraction)	5 mg/m³	ACGIH
		TWA (Mist)	5 mg/m³	NIOSH REL
		ST (Mist)	10 mg/m ³	NIOSH REL
Distillates (petroleum), solvent- dewaxed heavy paraffinic	64742-65-0	TWA (Mist)	5 mg/m ³	OSHA Z-1
		TWA (Inhal- able fraction)	5 mg/m³	ACGIH
		TWA (Mist)	5 mg/m³	NIOSH REL
		ST (Mist)	10 mg/m ³	NIOSH REL
12-Hydroxy lithium stearate	7620-77-1	TWA	10 mg/m ³	ACGIH

Hazardous components without workplace control parameters

Ingredients	CAS-No.
Zinc (C1-C14) Dialkyldithio-	68649-42-3
phosphate	

Engineering measures

: Ensure adequate ventilation, especially in confined areas. Minimize workplace exposure concentrations. Dust formation may be relevant in the processing of this



Version 3.0	Revision Date: 10/16/2017	SDS Numb 849143-00	
		limitatic workpla assess Particu dust, 5 Particle Specifie	. In addition to substance-specific OELs, general ons of concentrations of particulates in the air at aces have to be considered in workplace risk ment. Relevant limits include: OSHA PEL for lates Not Otherwise Regulated of 15 mg/m3 - total mg/m3 - respirable fraction; and ACGIH TWA for s (insoluble or poorly soluble) Not Otherwise ed of 3 mg/m3 - respirable particles, 10 mg/m3 - le particles.
Pers	onal protective equip	ment	
	biratory protection	: Genera maintai concen unknow Follow use NIC by air p hazardo supplie release circums	I and local exhaust ventilation is recommended to n vapor exposures below recommended limits. Where trations are above recommended limits or are m, appropriate respiratory protection should be worn. OSHA respirator regulations (29 CFR 1910.134) and DSH/MSHA approved respirators. Protection provided urifying respirators against exposure to any bus chemical is limited. Use a positive pressure air d respirator if there is any potential for uncontrolled , exposure levels are unknown, or any other stance where air purifying respirators may not provide te protection.
Hand	d protection		
Μ	laterial	: Chemic	al-resistant gloves
R	emarks	on the o time is For spe resistar gloves	e gloves to protect hands against chemicals depending concentration specific to place of work. Breakthrough not determined for the product. Change gloves often! ecial applications, we recommend clarifying the noce to chemicals of the aforementioned protective with the glove manufacturer. Wash hands before and at the end of workday.
Eye	protection		ne following personal protective equipment: goggles
Skin	and body protection	resistar potentia Skin co	appropriate protective clothing based on chemical nce data and an assessment of the local exposure al. ntact must be avoided by using impervious protective g (gloves, aprons, boots, etc).
Hygi	ene measures	located When u Wash o These	that eye flushing systems and safety showers are close to the working place. using do not eat, drink or smoke. contaminated clothing before re-use. precautions are for room temperature handling. Use at d temperature or aerosol/spray applications may



Version 3.0	Revision Date: 10/16/2017		S Number: 9143-00009	Date of last issue: 05/23/2017 Date of first issue: 11/28/2014
			require added	precautions.
SECTION	9. PHYSICAL AND CHI	EMIC	CAL PROPERT	TIES
Appea	arance	:	Grease	
Color		:	Straw-colored	I
Odor		:	slight	
Odor [·]	Threshold	:	No data availa	able
рН		:	Not applicable	9
Meltin	g point/freezing point	:	No data availa	able
Initial range	boiling point and boiling	:	Not applicable	9
Flash	point	:	> 200 °C Method: Seta	closed cup
Evapo	oration rate	:	Not applicable	9
Flamn	nability (solid, gas)	:	Not classified	as a flammability hazard
Self-i	gnition	:		e or mixture is not classified as pyrophoric. The mixture is not classified as self heating.
	r explosion limit / Upper nability limit	:	No data availa	able
	r explosion limit / Lower nability limit	:	No data availa	able
Vapor	pressure	:	Not applicable	9
Relati	ve vapor density	:	No data availa	able
Relati	ve density	:	0.87	
	ility(ies) ater solubility	:	No data availa	able
	on coefficient: n- ol/water	:	No data availa	able
Autoig	gnition temperature	:	No data availa	able
Decor	mposition temperature	:	No data availa	able
Viscos Vis	sity scosity, dynamic	:	Not applicable	9

SAFETY DATA SHEET

MOLYKOTE[™] Multilub High Performance Grease



Version 3.0	Revision Date: 10/16/2017	SDS Number: 849143-00009	Date of last issue: 05/23/2017 Date of first issue: 11/28/2014			
Explo	sive properties	: Not explosive				
Oxidizing properties		: The substance	e or mixture is not classified as oxidizing.			
Molecular weight		: No data availa	able			
Particle size		: No data availa	able			
SECTION						

SECTION 10. STABILITY AND REACTIVITY

Reactivity	:	Not classified as a reactivity hazard.
Chemical stability	:	Stable under normal conditions.
Possibility of hazardous reac- tions	:	Can react with strong oxidizing agents.
Conditions to avoid	:	None known.
Incompatible materials	:	Oxidizing agents
Hazardous decomposition products	:	No hazardous decomposition products are known.

SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Skin contact Ingestion Eye contact

Acute toxicity

Not classified based on available information.

Ingredients:

...

Distillates (petroleum), hydrotreated heavy naphthenic:

Acute oral toxicity	:	LD50 (Rat): > 5,000 mg/kg Method: OECD Test Guideline 401
Acute inhalation toxicity	:	LC50 (Rat): > 5.53 mg/l Exposure time: 4 h Test atmosphere: dust/mist Method: OECD Test Guideline 403 Assessment: The substance or mixture has no acute inhala- tion toxicity
Acute dermal toxicity	:	LD50 (Rabbit): > 5,000 mg/kg Method: OECD Test Guideline 402

Distillates (petroleum), solvent-dewaxed heavy paraffinic:

SAFETY DATA SHEET

MOLYKOTE[™] Multilub High Performance Grease



Version 3.0	Revision Date: 10/16/2017	-	DS Number: 9143-00009	Date of last issue: 05/23/2017 Date of first issue: 11/28/2014
Acute	e oral toxicity	:		00 mg/kg est Guideline 401 on data from similar materials
Acute	Acute inhalation toxicity		Assessment: The tion toxicity	h
Acute	e dermal toxicity	:		5,000 mg/kg est Guideline 402 on data from similar materials
12-Hy	ydroxy lithium stearate	: :		
	e oral toxicity	:	LD50 (Rat): > 2,0 Assessment: The icity	00 mg/kg substance or mixture has no acute oral tox-
Zinc	(C1-C14) Dialkyldithiop	oho	sphate:	
	e dermal toxicity	:		5,000 mg/kg
Not c Ingre	corrosion/irritation lassified based on availa dients:			
Speci	l lates (petroleum), hyd i ies: Rabbit lt: No skin irritation	rotr	eated heavy naph	thenic:
Distil	lates (petroleum), solv	vent	-dewaxed heavy r	paraffinic:
Speci Resu	ies: Rabbit It: No skin irritation arks: Based on data from			
12-Hy	ydroxy lithium stearate	: :		
Speci Resu	ies: Rabbit It: No skin irritation arks: Based on data fron		nilar materials	
Zinc	(C1-C14) Dialkyldithior	oho	sphate:	
Speci	ies: Rabbit It: No skin irritation	5110		
Serio	ous eye damage/eye irr	itati	on	
	es serious eye irritation.			

MOLYKOTE™ Multilub High Performance Grease



Version	Revision Date:	SDS Number:	Date of last issue: 05/23/2017
3.0	10/16/2017	849143-00009	Date of first issue: 11/28/2014

Ingredients:

Distillates (petroleum), hydrotreated heavy naphthenic:

Species: Rabbit Result: No eye irritation

Distillates (petroleum), solvent-dewaxed heavy paraffinic:

Species: Rabbit Result: No eye irritation Method: OECD Test Guideline 405 Remarks: Based on data from similar materials

12-Hydroxy lithium stearate:

Species: Rabbit Result: No eye irritation Remarks: Based on data from similar materials

Zinc (C1-C14) Dialkyldithiophosphate:

Species: Rabbit Result: Irreversible effects on the eye

Respiratory or skin sensitization

Skin sensitization

Not classified based on available information.

Respiratory sensitization

Not classified based on available information.

Ingredients:

Distillates (petroleum), hydrotreated heavy naphthenic:

Test Type: Buehler Test Routes of exposure: Skin contact Species: Guinea pig Result: negative

Distillates (petroleum), solvent-dewaxed heavy paraffinic:

Test Type: Buehler Test Routes of exposure: Skin contact Species: Guinea pig Method: OECD Test Guideline 406 Result: negative Remarks: Based on data from similar materials

12-Hydroxy lithium stearate:

Test Type: Local lymph node assay (LLNA) Routes of exposure: Skin contact Species: Mouse Method: OECD Test Guideline 429



ersion .0	Revision Date: 10/16/2017	SDS Number: 849143-00009	Date of last issue: 05/23/2017 Date of first issue: 11/28/2014	
	t: negative cell mutagenicity			
	assified based on ava <mark>dients:</mark>	ailable information.		
		ydrotreated heavy na	phthenic:	
	oxicity in vitro	: Test Type: Ba	cterial reverse mutation assay (AMES) D Test Guideline 471	
			vitro mammalian cell gene mutation test D Test Guideline 476 ve	
		Test Type: Ch Result: negativ	romosome aberration test in vitro /e	
Genot	oxicity in vivo	cytogenetic as Species: Mous Application Ro	se oute: Intraperitoneal injection D Test Guideline 474	
II Distill	ates (petroleum), so	olvent-dewaxed heav	y paraffinic:	
	oxicity in vitro	: Test Type: Ba Method: OECI Result: negativ	cterial reverse mutation assay (AMES) D Test Guideline 471	
Genot	oxicity in vivo	cytogenetic as Species: Mous Application Ro Method: OECI Result: negativ	se oute: Intraperitoneal injection D Test Guideline 474	

Carcinogenicity

Not classified based on available information.

Ingredients:

Distillates (petroleum), hydrotreated heavy naphthenic:

Species: Mouse Application Route: Skin contact Exposure time: 78 weeks Result: negative



Version 3.0	Revision Date: 10/16/2017		OS Number: 9143-00009	Date of last issue: 05/23/2017 Date of first issue: 11/28/2014
Spec Applie Expo Metho	llates (petroleum), solv ies: Mouse cation Route: Skin conta sure time: 78 weeks od: OECD Test Guideline lt: negative	ct		paraffinic:
"IARC	2	No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.		
OSH	A	No component of this product present at levels greater than c equal to 0.1% is on OSHA's list of regulated carcinogens.		
NTP		No ingredient of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinoge by NTP.		
-	oductive toxicity lassified based on availa	ble	information.	
Ingre	edients:			
Distil	llates (petroleum), hydr	otr	eated heavy naph	thenic:
Effec	ts on fertility	:	Test Type: Repro test Species: Rat Application Route Method: OECD T Result: negative	
Effec	ts on fetal development	:	Test Type: Embry Species: Rat Application Route Result: negative	vo-fetal development e: Skin contact

Distillates (petroleum), solvent-dewaxed heavy paraffinic:

Effects on fertility	:	Test Type: Reproduction/Developmental toxicity screening test Species: Rat Application Route: Ingestion Result: negative Remarks: Based on data from similar materials
Effects on fetal development	:	Test Type: Embryo-fetal development Species: Rat Application Route: Skin contact Method: OECD Test Guideline 414 Result: negative Remarks: Based on data from similar materials



Version	Revision Date:	SDS Number:
3.0	10/16/2017	849143-00009

Date of last issue: 05/23/2017 Date of first issue: 11/28/2014

STOT-single exposure

Not classified based on available information.

STOT-repeated exposure

Not classified based on available information.

Ingredients:

12-Hydroxy lithium stearate:

Routes of exposure: Ingestion Assessment: No significant health effects observed in animals at concentrations of 100 mg/kg bw or less.

Repeated dose toxicity

Ingredients:

Distillates (petroleum), hydrotreated heavy naphthenic:

Species: Rat NOAEL: > 0.98 mg/l Application Route: inhalation (dust/mist/fume) Exposure time: 28 Days

Distillates (petroleum), solvent-dewaxed heavy paraffinic:

Species: Rabbit NOAEL: 1,000 mg/kg Application Route: Skin contact Exposure time: 4 Weeks Method: OECD Test Guideline 410 Remarks: Based on data from similar materials

Species: Rat NOAEL: > 980 mg/m³ Application Route: inhalation (dust/mist/fume) Exposure time: 4 Weeks Remarks: Based on data from similar materials

12-Hydroxy lithium stearate:

Species: Rat NOAEL: > 88 mg/kg Application Route: Ingestion Exposure time: 90 Days

Aspiration toxicity

Not classified based on available information.

Ingredients:

Distillates (petroleum), hydrotreated heavy naphthenic:

The substance or mixture is known to cause human aspiration toxicity hazards or has to be regarded as if it causes a human aspiration toxicity hazard.



Version	Revision Date:	SDS Number:	Date of last issue: 05/23/2017
3.0	10/16/2017	849143-00009	Date of first issue: 11/28/2014

Distillates (petroleum), solvent-dewaxed heavy paraffinic:

The substance or mixture is known to cause human aspiration toxicity hazards or has to be regarded as if it causes a human aspiration toxicity hazard.

SECTION 12. ECOLOGICAL INFORMATION

Ingredients:

Distillates (petroleum), hydrotreated heavy naphthenic:

Toxicity to fish	:	LL50 (Pimephales promelas (fathead minnow)): > 100 mg/l Exposure time: 96 h Test substance: Water Accommodated Fraction Method: OECD Test Guideline 203
Toxicity to daphnia and other aquatic invertebrates	:	EL50 (Daphnia magna (Water flea)): > 10,000 mg/l Exposure time: 48 h Test substance: Water Accommodated Fraction
Toxicity to algae	:	EL50 (Pseudokirchneriella subcapitata (green algae)): > 100 mg/l Exposure time: 72 h Test substance: Water Accommodated Fraction Method: OECD Test Guideline 201
		NOELR (Pseudokirchneriella subcapitata (green algae)): 100 mg/l Exposure time: 72 h Test substance: Water Accommodated Fraction Method: OECD Test Guideline 201
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)	:	NOEC (Daphnia magna (Water flea)): 10 mg/l Exposure time: 21 d Test substance: Water Accommodated Fraction
Toxicity to microorganisms	:	NOEC: >= 1.93 mg/l Exposure time: 10 min

Distillates (petroleum), solvent-dewaxed heavy paraffinic:

Toxicity to fish	:	LC50 (Pimephales promelas (fathead minnow)): > 100 mg/l Exposure time: 96 h Method: OECD Test Guideline 203 Remarks: Based on data from similar materials
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): > 10,000 mg/l Exposure time: 48 h Method: OECD Test Guideline 202 Remarks: Based on data from similar materials
Toxicity to algae	:	EC50 (Pseudokirchneriella subcapitata (green algae)): > 100 mg/l

SAFETY DATA SHEET

MOLYKOTE[™] Multilub High Performance Grease



Version 3.0	Revision Date: 10/16/2017		DS Number: 9143-00009	Date of last issue: 05/23/2017 Date of first issue: 11/28/2014
			Exposure time: 72 Method: OECD T Remarks: Based	
aqua	city to daphnia and other tic invertebrates onic toxicity)	:	Exposure time: 27 Method: OECD T	
Τοχία	city to microorganisms	:	NOEC: > 1.93 mg Exposure time: 10 Method: DIN 38 4 Remarks: Based) min
12-H	ydroxy lithium stearate	:		
	city to fish	:	LL50 (Oncorhync Exposure time: 96 Method: OECD T	
	city to daphnia and other tic invertebrates	:	EL50 (Daphnia m Exposure time: 48 Method: OECD T	
Τοχία	city to algae	:	NOELR (Pseudok 100 mg/l Exposure time: 72 Method: OECD T	
II Zinc	(C1-C14) Dialkyldithiop	ho	sphate:	
	city to fish	:	LL50 (Oncorhync Exposure time: 96 Test substance: V Method: OECD T	Vater Accommodated Fraction
	city to daphnia and other tic invertebrates	:	Exposure time: 48 Method: OECD T	
Τοχία	city to algae	:	Exposure time: 72 Test substance: V Method: OECD T	Vater Accommodated Fraction
aqua	city to daphnia and other tic invertebrates onic toxicity)	:	Exposure time: 2 Method: OECD T	
Toxic	city to microorganisms	:	EC50: > 10,000 n	ng/l



Version 3.0	Revision Date: 10/16/2017	SDS Number: 849143-00009	Date of last issue: 05/23/2017 Date of first issue: 11/28/2014
			: 3 h) Test Guideline 209 ed on data from similar materials
Persist	tence and degradal	pility	
Ingred	ients:		
Distilla	ites (petroleum), hy	drotreated heavy na	phthenic:
	radability	: Result: Not rea Biodegradation Exposure time:	adily biodegradable. n: 31 %
Distilla	ites (petroleum), so	lvent-dewaxed heav	y paraffinic:
Biodeg	radability	Biodegradatior Exposure time	
12-Hyd	Iroxy lithium steara	ite:	
Biodeg	radability	Biodegradation Exposure time:	
Zinc (C	C1-C14) Dialkyldithi	ophosphate:	
Biodeg	radability	Biodegradatior Exposure time:	
	a available	I	
	r y in soil a available		
0.1	adverse effects a available		

Resource Conservation and Recovery Act (RCRA)	:	This product has been evaluated for RCRA characteristics and does not meet the criteria of hazardous waste if discarded in its purchased form.
Waste from residues	:	Dispose of in accordance with local regulations.



Version	Revision Date:	SDS Number:	Date of last issue: 05/23/2017
3.0	10/16/2017	849143-00009	Date of first issue: 11/28/2014
Contan	ninated packaging	handling site for r	should be taken to an approved waste ecycling or disposal. pecified: Dispose of as unused product.

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.

Domestic regulation

49 CFR

Not regulated as a dangerous good

SECTION 15. REGULATORY INFORMATION

EPCRA - Emergency Planning and Community Right-to-Know

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	:	Serious eye damage or e	ye irritation	
SARA 313	:	The following components established by SARA Title	•	
		Zinc (C1-C14) Dialkyldi- thiophosphate	68649-42-3	>= 1.5 - <= 1.9 %

US State Regulations

Pennsylvania Right To Know

Distillates (petroleum), hydrotreated heavy naphthenic	64742-52-5
Distillates (petroleum), solvent-dewaxed heavy paraffinic	64742-65-0
12-Hydroxy lithium stearate	7620-77-1
Zinc (C1-C14) Dialkyldithiophosphate	68649-42-3



Version	Revision Date:	SDS Number:	Date of last issue: 05/23/2017
3.0	10/16/2017	849143-00009	Date of first issue: 11/28/2014

California Prop. 65

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

California List of Hazardous Substances

Distillates (petroleum), hydrotreated heavy naphthenic	64742-52-5
Distillates (petroleum), solvent-dewaxed heavy paraffinic	64742-65-0
Zinc (C1-C14) Dialkyldithiophosphate	68649-42-3
California Permissible Exposure Limits for Chemical Contaminants	

•	
Distillates (petroleum), hydrotreated heavy naphthenic	64742-52-5
Distillates (petroleum), solvent-dewaxed heavy paraffinic	64742-65-0

The ingredients of this product are reported in the following inventories:

NZIoC	:	All ingredients listed or exempt.
REACH	:	For purchases from Dow Chemical EU legal entities, all ingredients are currently pre/registered or exempt under REACH. Please refer to section 1 for recommended uses. For purchases from non-EU Dow Chemical legal entities with the intention to export into EEA please contact your DC representative/local office.
TSCA	:	All chemical substances in this product are either listed on the TSCA Inventory or are in compliance with a TSCA Inventory exemption.
AICS	:	All ingredients listed or exempt.
IECSC	:	All ingredients listed or exempt.
ENCS/ISHL	:	Some components are not listed or not identified on ENCS/ISHL.
TCSI	:	All ingredients listed or exempt.



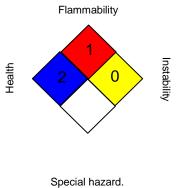
VersionRevision Date:SDS Number:Date of las3.010/16/2017849143-00009Date of first

Date of last issue: 05/23/2017 Date of first issue: 11/28/2014

SECTION 16. OTHER INFORMATION

Further information





HMIS® IV:



HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. The "*" represents a chronic hazard, while the "/" represents the absence of a chronic hazard.

Full text of other abbreviations

ACGIH NIOSH REL OSHA Z-1	:	USA. ACGIH Threshold Limit Values (TLV) USA. NIOSH Recommended Exposure Limits 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 Z-1 / TWA	:	8-hour time weighted average

AICS - Australian Inventory of Chemical Substances; 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 Ob-



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served (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; UNRTDG - United Nations; Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

Sources of key data used to	:	Internal technical data, data from raw material SDSs, OECD
compile the Material Safety		eChem Portal search results and European Chemicals Agen-
Data Sheet		cy, http://echa.europa.eu/

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Items where changes have been made to the previous version are highlighted in the body of this document by two vertical lines.

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US / Z8