

Version 2.1	Revision Date: 10/17/2016	-	DS Number: 14436-00002	Date of last issue: 04/19/2016 Date of first issue: 12/23/2009				
SECTIO	SECTION 1. IDENTIFICATION							
Pro	oduct name	:	High Performanc	e Commercial Vehicle Grease				
Pro	oduct code	:	893.8804					
	Manufacturer or supplier's Company name of supplier		<b>ails</b> Würth Canada Li	mited				
Ad	Address		345 Hanlon Creek Blvd GUELPH, ON N1C 0A1					
Те	Telephone		+1 (905) 564 6225					
Те	Telefax		+1 (905) 564 3671					
Em	Emergency telephone		In case of emergency please contact: CANUTEC +1 (61 996 6666 (5:00 pm - 8:00 am). WÜRTH CANADA LIMI +1 (905) 564 6225 (8:00 am - 5:00 pm)					
E-r	E-mail address		prodsafe@wuertl	n.com				
Re	commended use of the	cher	nical and restricti	ons on use				
Re	Recommended use		Lubricants and lubricant additives					

#### **SECTION 2. HAZARDS IDENTIFICATION**

# GHS classification in accordance with the Hazardous Products Regulations

Not a hazardous substance or mixture.

#### **GHS** label elements

Not a hazardous substance or mixture.

#### Other hazards

None known.

#### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

#### Hazardous ingredients

Chemical name	CAS-No.	Concentration (% w/w)
Distillates (petroleum), hydrotreated heavy naph-	64742-52-5	>= 70 - < 90
thenic		
Residual oils (petroleum), solvent-dewaxed	64742-62-7	>= 10 - < 20
12-Hydroxy lithium stearate	7620-77-1	>= 5 - < 10

#### **SECTION 4. FIRST AID MEASURES**

If inhaled

: If inhaled, remove to fresh air.



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			Get medical atter	ntion 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		:	Flush eyes with water as a precaution. Get medical attention if irritation develops and persists.		
If swallowed		:	If swallowed, DO NOT induce vomiting. Get medical attention if symptoms occur. Rinse mouth thoroughly with water.		
ar	Most important symptoms and effects, both acute and delayed		None known.		
Pi	otection of first-aiders	:	No special preca	utions are necessary for first aid responders.	
Notes to physician		:	Treat symptomat	ically and supportively.	

#### SECTION 5. FIRE-FIGHTING MEASURES

Suitable extinguishing media	:	Water spray Alcohol-resistant foam Carbon dioxide (CO2) Dry chemical
Unsuitable extinguishing media	:	None known.
Specific hazards during fire fighting	:	Exposure to combustion products may be a hazard to health.
Hazardous combustion prod- ucts	:	Carbon oxides Metal oxides
Specific extinguishing meth- ods	:	Use extinguishing measures that are appropriate to local cir- cumstances and the surrounding environment. Use water spray to cool unopened containers. Remove undamaged containers from fire area if it is safe to do so. Evacuate area.
Special protective equipment for fire-fighters	:	Wear self-contained breathing apparatus for firefighting if nec- essary. Use personal protective equipment.

#### SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protec- :	Follow safe handling advice and personal protective
tive equipment and emer-	equipment recommendations.
gency procedures	

### SAFETY DATA SHEET



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Environmental precautions			Prevent further lea Prevent spreading barriers). Retain and dispos	e environment must be avoided. akage or spillage if safe to do so. g over a wide area (e.g. by containment or oil se of contaminated wash water. should be advised if significant spillages ed.
	containment and cleaning up Fo me pu Cle be Lo sa plo wh Se		For large spills, pr ment to keep mat pumped, store rec Clean up remainin bent. Local or national r sal of this materia ployed in the clea which regulations Sections 13 and 1	absorbent material. Forvide diking or other appropriate contain- erial from spreading. If diked material can be covered material in appropriate container. In a materials from spill with suitable absor- regulations may apply to releases and dispo- I, as well as those materials and items em- nup of releases. You will need to determine are applicable. 5 of this SDS provide information regarding tional requirements.

#### 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	:	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
Recommended storage tem- perature	:	< 45 °C

#### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Ingredients with workplace control parameters

Ingredients	CAS-No.	Value type (Form of	Control parame- ters / Permissible	Basis
		exposure)	concentration	
Distillates (petroleum), hy- drotreated heavy naphthenic	64742-52-5	TWA (Mist)	5 mg/m³	CA AB OEL
		STEL (Mist)	10 mg/m <sup>3</sup>	CA AB OEL
		TWAEV	5 mg/m³	CA QC OEL



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	1		1	I
		(Mist)	40	
		STEV (Mist)	10 mg/m <sup>3</sup>	
		TWA (Mist)	1 mg/m <sup>3</sup>	CA BC O
		TWA (Inhal-	5 mg/m³	ACGIH
Desidual sile (netroleum) sel	C 47 40 CO 7	able fraction)	Γ. res. gr/res.3	CA QC O
Residual oils (petroleum), sol- vent-dewaxed	64742-62-7	TWAEV (Mist)	5 mg/m³	
vent-dewaxed		STEV (Mist)	10 mg/m <sup>3</sup>	CA QC O
		TWA (Mist)	5 mg/m <sup>3</sup>	
		STEL (Mist)	10 mg/m <sup>3</sup>	CA AB O
		TWA (Mist)	1 mg/m <sup>3</sup>	CA BC O
		TWA (Inhal-	5 mg/m <sup>3</sup>	ACGIH
		able fraction)	5 mg/m	
12-Hydroxy lithium stearate	7620-77-1	TWA	10 mg/m <sup>3</sup>	CA AB O
	1020111	TWA	10 mg/m <sup>3</sup>	CA BC O
		TWA	10 mg/m <sup>3</sup>	ACGIH
			To mg/m-	
Respiratory protection	ventilation is	provided or expo	less adequate loc osure assessmen ommended expos	t demonstrates
Filter type			rganic vapor type	-
Hand protection Material Break through time Glove thickness	: Nitrile rubber : > 480 min : >= 0.38 mm	r		
Remarks	on the conce applications, micals of the	entration specific we recommend aforementioned	ds against chemi to place of work. clarifying the resi protective gloves efore breaks and	For special stance to che- with the glove
Eye protection	: Wear the foll Safety glasse		protective equipm	ent:
Skin and body protection	: Skin should I	be washed after	contact.	
Hygiene measures	located close When using	eye flushing syste to the working p do not eat, drink ninated clothing	or smoke.	howers are

#### SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

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Appea	Irance	:	paste	
Color		:	yellow, brown	
Odor		:	No data available	9
Odor 7	Threshold	:	No data available	)
рН		:	No data available	9
Melting	g point/freezing point	:	No data available	)
Initial I range	poiling point and boiling	:	No data available	
Flash	point	:	> 150 °C	
Evapo	ration rate	:	No data available	)
Flamm	nability (solid, gas)	:	Not applicable	
Upper	explosion limit	:	No data available	)
Lower	explosion limit	:	No data available	)
Vapor	pressure	:	No data available	2
Relativ	ve vapor density	:	No data available	)
Densit	у	:	< 1,000 kg/m³ (2	5 °C)
	lity(ies) ater solubility	:	No data available	9
	on coefficient: n- bl/water	:	Not applicable	
Autoig	nition temperature	:	No data available	9
Decon	nposition temperature	:	No data available	)
Viscos Vis	sity cosity, dynamic	:	No data available	)
Vis	cosity, kinematic	:	210 mm²/s (40 °C	C)
Explos	sive properties	:	Not explosive	
Oxidiz	ing properties	:	The substance of	r mixture is not classified as oxidizing.

#### SECTION 10. STABILITY AND REACTIVITY

Reactivity

: Not classified as a reactivity hazard.



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	Chemio	cal stability	:	Stable under nor	mal conditions.
	Possibility of hazardous reac- tions		:	Can react with st	rong oxidizing agents.
	Conditions to avoid		:	None known.	
	Incompatible materials		:	Oxidizing agents	
	Hazard produc	lous decomposition ts	:	No hazardous de	ecomposition products are known.

#### SECTION 11. TOXICOLOGICAL INFORMATION

#### Information on likely routes of exposure

Inhalation 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 Remarks: Based on data from similar materials
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 Remarks: Based on data from similar materials
Acute dermal toxicity :	LD50 (Rabbit): > 5,000 mg/kg Method: OECD Test Guideline 402 Remarks: Based on data from similar materials
Residual oils (petroleum), solve	ent-dewaxed:
Acute oral toxicity :	LD50 (Rat): > 5,000 mg/kg Method: OECD Test Guideline 401 Remarks: Based on data from similar materials
Acute inhalation toxicity :	LC50 (Rat): > 5.53 mg/l Exposure time: 4 brs



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Acute	e dermal toxicity	Method: OECD	: LD50 (Rabbit): > 5,000 mg/kg Method: OECD Test Guideline 402 Remarks: Based on data from similar materials				
12-H	ydroxy lithium steara	te:					
-	e oral toxicity	: LD50 (Rat): > 2	Assessment: The substance or mixture has no acute oral tox-				
-	corrosion/irritation lassified based on ava	ilable information.					
Ingre	dients:						
Spec Resu	l <b>ates (petroleum), hy</b> ies: Rabbit lt: No skin irritation arks: Based on data fro		phthenic:				
Spec Resu	<b>Residual oils (petroleum), solvent-dewaxed:</b> Species: Rabbit Result: No skin irritation Remarks: Based on data from similar materials						
12-H	ydroxy lithium steara	te:					
Spec Resu	ies: Rabbit It: No skin irritation arks: Based on data fro						
	<b>ous eye damage/eye i</b> lassified based on ava						
Ingre	dients:						
Spec Resu	Distillates (petroleum), hydrotreated heavy naphthenic: Species: Rabbit Result: No eye irritation Remarks: Based on data from similar materials						
Spec Resu	<b>dual oils (petroleum),</b> ies: Rabbit It: No eye irritation arks: Based on data fro						
Spec Resu	ydroxy lithium steara ies: Rabbit lt: No eye irritation arks: Based on data fro						



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Resp	iratory or skin sens	itizatio	n	
Skin	sensitization			
Not cl	lassified based on av	ailable	information.	
Resp	iratory sensitization	า		
Not cl	lassified based on av	ailable	information.	
Ingre	<u>dients:</u>			
Distil	lates (petroleum), h	ydrotre	eated heavy na	ohthenic:
Route Speci Resul	Type: Buehler Test es of exposure: Skin d ies: Guinea pig It: negative arks: Based on data fi		nilar materials	
Resid	dual oils (petroleum)	), solve	ent-dewaxed:	
Route Speci Metho	Type: Buehler Test es of exposure: Skin d ies: Guinea pig od: OECD Test Guide lt: negative		6	
12-Hy	droxy lithium stear	ate:		
Route Speci Metho	Type: Local lymph no es of exposure: Skin d ies: Mouse od: OECD Test Guide It: negative	contact		
Germ	cell mutagenicity			
	lassified based on av	ailable	information.	
Ingre	dients:			
	lates (petroleum), h	vdrotre	eated heavy na	obthenic:
	toxicity in vitro	:	Test Type: Bac	terial reverse mutation assay (AMES) Test Guideline 471
Geno	toxicity in vivo	:	cytogenetic ass Species: Mous Application Rod Method: OECD Result: negativ	e ute: Intraperitoneal injection 9 Test Guideline 474

#### Residual oils (petroleum), solvent-dewaxed:

Genotoxicity in vitro	: Test Type: Chromosome aberration test in vitro
	Result: negative
	Remarks: Based on data from similar materials



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Geno	toxicity in vivo	cytogenetic ass Species: Mous Application Ro	e ute: Intraperitoneal injection ) Test Guideline 474
	nogenicity		
	assified based on availa	able information.	
Ingre	<u>dients:</u>		
Expos Metho	cation Route: Skin conta sure time: 78 weeks od: OECD Test Guidelin t: negative		
Speci Applic Expos Resul	lual oils (petroleum), s es: Mouse cation Route: Skin conta sure time: 78 weeks t: negative trks: Based on data fron	act	
•	oductive toxicity assified based on availa	able information.	
Ingre	<u>dients:</u>		
Resid	lual oils (petroleum), s	olvent-dewaxed:	
Effect	s on fertility	: Test Type: Rep test Species: Rat Application Rou Result: negativ	
Effect	s on fetal development	Species: Rat	bryo-fetal development ute: Skin contact e
	-single exposure assified based on availa	able information	
3101	-repeated exposure		

Not classified based on available information.

#### Ingredients:

12-Hydroxy lithium stearate:

Routes of exposure: Ingestion



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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 Remarks: Based on data from similar materials

#### Residual oils (petroleum), solvent-dewaxed:

Species: Rat NOAEL: 1,000 mg/kg Application Route: Skin contact Exposure time: 13 Weeks Method: OECD Test Guideline 411 Remarks: Based on data from similar materials

Species: Rat NOAEL: > 980 mg/m<sup>3</sup> 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.

#### **SECTION 12. ECOLOGICAL INFORMATION**

#### Ecotoxicity

Ingredients:

#### Distillates (petroleum), hydrotreated heavy naphthenic:

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 Remarks: Based on data from similar materials



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Toxicity	Toxicity to algae		mg/l Exposure time: 72 Method: OECD Te	
	invertebrates (Chron-	:	Exposure time: 21	nagna (Water flea)): 10 mg/l d on data from similar materials
Toxicity	Toxicity to microorganisms		NOEC: > 1.93 mg/l Exposure time: 10 min Remarks: Based on data from similar materials	
Residu	al oils (petroleum), s	olve	ent-dewaxed:	
Toxicity		:	LL50 (Pimephales Exposure time: 96 Test substance: W Method: OECD Te	Vater Accommodated Fraction
	to daphnia and other invertebrates	:	Exposure time: 48 Test substance: V	agna (Water flea)): > 10,000 mg/l 3 h Vater Accommodated Fraction on data from similar materials
Toxicity	∕ to algae	:	mg/l Exposure time: 72 Test substance: W Method: OECD Te	Vater Accommodated Fraction
aquatic	Toxicity to daphnia and other aquatic invertebrates (Chron- ic toxicity)		Exposure time: 21 Test substance: V	nagna (Water flea)): 10 mg/l d Vater Accommodated Fraction on data from similar materials
Toxicity	to microorganisms	:	NOEC: > 1.93 mg Exposure time: 10 Remarks: Based o	
12-Hyd	roxy lithium stearate			
Toxicity	-	:	LL50 (Oncorhynch Exposure time: 96 Method: OECD Te	
	to daphnia and other invertebrates	:	EL50 (Daphnia magna (Water flea)): > 100 mg/l Exposure time: 48 h Method: OECD Test Guideline 202	
Toxicity	v to algae	:	NOELR (Pseudok 100 mg/l	irchneriella subcapitata (green algae)): >



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	Exposure time: 72 h Method: OECD Test Guideline 201						
	Persistence and degradability						
	Ingred	ients:					
	Distilla	ates (petroleum), hydi	rotr	eated heavy naph	thenic:		
	Biodegradability :		Result: Not readily biodegradable. Biodegradation: 2 - 4 % Exposure time: 28 d Method: OECD Test Guideline 301B				
	Residu	ual oils (petroleum), s	olv	ent-dewaxed:			
	Biodeg	ıradability	:		2 - 4 %		
	12-Hyd	droxy lithium stearate	:				
	Biodeg	radability	:	Result: Readily b Biodegradation: Exposure time: 2 Method: OECD T	78 %		
		cumulative potential a available					
		<b>ty in soil</b> a available					
		<b>adverse effects</b> a available					
SEC	SECTION 13. DISPOSAL CONSIDERATIONS						
	Dispos	sal methods					
	-	from residues	:	Dispose of in acc	ordance with local regulations.		
	Contar	ninated packaging	:	handling site for r	s 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



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Not re	egulated as a dangero	ous good			
	-Code	_			
Not re	Not regulated as a dangerous good				
Trans	sport in bulk accordi	ing to Annex II of MA	RPOL 73/78 and the IBC Code		
Not a	Not applicable for product as supplied.				
Dome	Domestic regulation				
TDG					
	egulated as a dangero	ous good			
Not re		-			
Not re	egulated as a dangerd	-			
Not re SECTION Volat	15. REGULATORY I	NFORMATION			
Not re SECTION Volat	15. REGULATORY I	NFORMATION	: 0 % / 0 g/l		
Not re SECTION Volat (VOC	15. REGULATORY I ile organic compour ) content	NFORMATION nds VOC content	: 0 % / 0 g/l h the following inventories:		

#### **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 safe- ty, Schedule 1, Part 1: Permissible exposure values for air- borne contaminants			
ACGIH / TWA	:	8-hour, time-weighted average			
CA AB OEL / TWA	:	8-hour Occupational exposure limit			
CA AB OEL / STEL	:	15-minute occupational exposure limit			
CA BC OEL / TWA	:	8-hour time weighted average			
CA QC OEL / TWAEV	:	Time-weighted average exposure value			
CA QC OEL / STEV	:	Short-term exposure value			

AICS - Australian Inventory of Chemical Substances; 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; CPR - Controlled Products Regulations; 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 Chemi-



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cals 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; 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

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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