# Lubricity Extreme

Version 1.1

Revision Date 08/20/2019

Print Date 08/20/2019

	PRODUCT AND CO	OMPANY IDENTIFICATION	
Product name Product code Chemical Nar	ne r or supplier's deta	Lubricity Extreme (AKA: LX4)	1-703-527-3887. 1-877-378-7745. 66. EUROPE: 00 +65 6542-9595. 1 2 9616 5890. 0800 720 8000.
Recommend	ed use of the cher	6542 9595 (24時間 日本語対応無料通話, シン nical and restrictions on use	ンガポール)
Recommende		Add to any diesel or gasoline fuel, including 85. Do not ingest.	E-
Prepared by	:	Product Safety Department 419-947-2647	

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HAZARDS IDENTIFICATION

#### Hazard classification Classification acc. To GHS criteria and OSHA "Hazard Communication Standard" (29 CFR 1910.1200)

#### **Health Hazards**

Skin corrosion/irritationCategory 2Serious eye damage/eye irritationCategory 2A

#### **GHS Label element**

**Hazard Symbol** 



Signal Word Hazard Statement Warning Causes Skin irritation Causes serious eye irritation



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# HOT SHOT'S SECRET

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Precautionary statement	N/A	
Prevention	Wash thoroughly after handling. Wear protective gloves/protective clothing/eye protection/face protection.	
Response	If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. IF ON SKIN: Wash with plenty of water. If skin irritation occurs: Get medical advice/attention. Specific treatment (see this label). Take off contaminated clothing and wash before reuse.	
Storage	Store in a closed container.	
Disposal	Dispose of contents/container to an appro- facility in accordance with applicable law product characteristics at time of disposa	ws and regulations, and
er hazards which do not ılt in GHS classification	None.	

3	COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

\*

Name of Substance	Identifier CAS No	Wt%	
Tall Oil Fatty Acid	61790-12-3	55-75%*	
Trade Secret	Trade Secret	25-45%*	

\*The exact percentage (concentration) and identity composition has been withheld as a trade secret

4	FIRST AID ME	FIRST AID MEASURES		
If in	haled	: If breathed in, move person into fresh air. If breathing is difficult, give oxygen. If not breathing, perform artificial respiration and contact physician immediately.		
In ca	ase of skin contact	: Immediately flush with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Get medical attention if irritation develops or persists. Wash shoes and clothing separately before reuse.		
In ca	ase of eye contact	: Immediately flush eye(s) with plenty of water for at least 15 minutes and see a doctor.		
If sw	allowed	: Rinse mouth. Do not induce vomiting unless directed to so so by medical personnel. Never give liquid to an unconscious person. Get medical attention.		

# HOT SHOT'S POWERED BY BEIENCE

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FIRE FIGHTING MEASURES

Flash point	: 184—189 °C (PMCC)
Explosive limits	: Not determined
Autoignition point	: Not determined
Suitable extinguishing media	: Dry chemical, carbon dioxide and/or foam.
Unsuitable extinguishing media	: No data available
Specific hazards arising from the chemical	• Combustible liquid. At elevated temperatures, vapors can form an ignitable or explosive mixture with air. Can form explosive mixtures at temperatures at or above the flash point. Vapors can flow along surfaces to distant ignition sources and flash back. Static discharges can cause ignition or explosion when container is not bonded. Containers exposed to intense heat from fires should be cooled with water to prevent vapor pressure buildup which could result in container rupture or explosion
Specific extinguishing methods	: No data available
Special protective equipment for fire-fighters	: In the event of fire, wear self-contained breathing apparatus pressure-demand MSHA/NIOSH (approved or equivalent) and full protective gear. Avoid breathing smoke and vapor.
6 ACCIDENTAL RE	ELEASE MEASURES

Protective Precautions, Protective Equipment and Emergency Procedures	Ventilate area of leak or spill. Wear appropriate personal protective equipment as specified in Section 8. Isolate hazard area. Keep personnel removed and upwind of spill. Eliminate all ignition sources. Keep unnecessary and unprotected personnel from entering.
<b>Environmental Precautions:</b> Steps to be taken in case material is released or spilled <b>Initial Containment:</b> Approach release from upwind. Eliminate all of ignition – heat, sparks, flame, electricity, and impact. Contain sp material with dikes or absorbents. Do not allow material to enter so surface water, or sewer system. Stop the source of the leak, if safe t	
	<b>Large Spill:</b> Contain spilled material. Vacuum or sweep up material and place in a disposal container. Absorb residue with inert material (e.g., dry sand or earth,) then place in a chemical waste container. Do not flush to sewer. Use explosion-proof equipment during clean-up.
	<b>Small Spill:</b> Contain spilled material. Absorb with inert material and place in disposal container. Spills are extremely slippery. Clean up immediately.
	<b>Miscellaneous:</b> Note that combustible vapors may form an ignitable mixture with air. Vapors may travel considerable distances from spill and flash back, if ignited. Report spills to local authorities and/or the U.S. coast Guard's National Response Center at (800) 424-8802 as appropriate or required.

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HANDLING A	ND STORAGE	
Advice on safe handling	: Ground and bond containers when tra Container must be kept tightly closed and eyes. Avoid breathing vapors or from food and drinking water.	1. Avoid contact with skin
Conditions for safe storage	: Store in original container. Keep container tightly closed in a dry Eliminate all sources of ignition.	y and well-ventilated place.
Materials to avoid	: No special restrictions on storage wit	h other products.

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#### EXPOSURE CONTROLS/PERSONAL PROTECTION

#### **Exposure Guidelines**

Observe exposure limits for Oil Mist (NOC): ACGIH: TWA: 5 mg/m<sup>3</sup> Respirable; STEL 10mg/m<sup>3</sup> Respirable OSHA: TWA: 5 mg/m<sup>3</sup> Respirable. NIOSH REL: TWA 10mg/m<sup>3</sup> Respirable

Engineering Controls	:	Provide local exhaust and general ventilation systems to maintain airborne concentrations below OSHA, ACGIH, and manufacturer recommended exposure limits. Local exhaust ventilation is recommended.
Personal Protection		
Eye protection	:	Safety glasses. Wear chemical goggles and face shield if splashing.
<b>Respiratory protection</b>	:	No personal respiratory protective equipment normally required.
Hand protection	:	For prolonged or repeated contact use protective gloves.
Skin and body protection	:	Wear impervious clothing
Additional Exposure Remarks	:	Eye wash fountains and emergency showers are recommended. Launder contaminated clothing before reuse. Use good industrial hygiene practices in handling this material.

9 PHYSICAL AND 0	CHEMICAL PROPERTIES	
Appearance Odor Odor Threshold pH Melting Point/Freezing Point	<ul> <li>Clear, yellow liquid</li> <li>Fatty Acid odor</li> <li>No data available</li> <li>Not determined</li> <li>Not determined</li> </ul>	Authorized Distributor RUDOLPH BROS. & CO. DHERING TO QUALITY 1-800-375-0605 www.rudolphbros.com
Boiling point Flash point Autoignition Point: Flammability (Solid/Gas)	<ul> <li>&gt; 200 °C (&gt; 392 °F)</li> <li>184-189 °C (363-372 °F) (PMCC)</li> <li>Not determined</li> <li>Not determined</li> </ul>	



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: Not determined	
: Not determined	
	<ul> <li>Not determined</li> <li>Not determined</li> <li>Not determined</li> <li>Not determined</li> <li>Not determined</li> <li>Not determined</li> </ul>

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#### **STABILITY AND REACTIVITY**

Chemical stability	: Not determined
Possibility of hazardous reactions	: Not determined
Conditions to avoid	: Sources of ignition, heat
Incompatible materials	: Oxidizing material. Avoid prolonged contact with porous materials.
Hazardous decomposition products	<ul> <li>Products of Combustion: These products are carbon oxides (CO, CO2) nitrogen oxides (NO, NO2)</li> </ul>

#### **TOXICOLOGICAL INFORMATION**

Toxicity to Humans	:	No data available
Chronic Toxicity Data	:	No data available

#### Acute toxicity

#### Tall Oil Fatty Acid

Acute Dermal LD50 Albino rabbit: >2000 mg/kg 14 days, at this dose no death occurred. Acute Oral LD50 Albino Sprague-Dawley rat: >10000 mg/kg 14 days, at this dose no death occurred.

#### Trade Secret

Acute Oral: Not classified for acute toxicity based on available data. Acute Dermal: ATEmix: 3000 mg/kg

Primary irritant effect	:	No data available
Reproductive toxicity	:	No data available
Germ Cell mutagenicity	:	No data available
Carcinogenicity	:	No data available
Reproductive toxicity	:	No data available



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STOT-single exposure

: No data available

**STOT-repeated exposure** 

: No data available

#### ECOLOGICAL INFORMATION

#### Ecotoxicity

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Tall oil Fatty Acids

EC50 Bacteria (Pseudomonas putida): > 10000 mg/L 16hr

ECL50 Green algae (Selenastrum capricornutum): > 1000 mg/L 72 hr Growth rate; OECD 201

EL50 Water flea (Daphnia magna): > 1000 mg/L 48 hr OECD 202

LL50 Zebra danio (Danio rerio): > 10000 mg/L 96hr

Trade Secret:

LC50 Fathead minnow (Pimephales promelas): > 1000 mg/L Mortality 1hr

LC50 Fathead minnow (Pimephales promelas): > 285 mg/L Mortality 24hr

LC50 Fathead minnow (Pimephales promelas): > 252 mg/L Mortality 48hr

LC50 Fathead minnow (Pimephales promelas): > 205 mg/L Mortality 72hr

LC50 Fathead minnow (Pimephales promelas): > 205 mg/L Mortality 96hr

Chronic hazards to Aquatic Environment	:	No data available
Persistence and Degradability	:	No data available
<b>Bioaccumulative Potential</b>	:	No data available
Mobility in Soil	:	No data available
PBT/VPvB Assessment	:	No data available
Other Adverse Effects	:	No data available
Additional ecological information	:	Information given is based on data on the ingredients and the ecotoxicology of similar products.

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 DISPOSAL CONSIDERATIONS

 Disposal methods Waste disposal method
 : Dispose of in accordance with local regulations. Collect and dispose in sealed containers at licensed waste disposal site. Do not allow this material to drain into sewers/water supplies. Under RCRA, it is the responsibility of the user of the product to determine, at the time of disposal, whether the product meets RCRA criteria for hazardous waste.

 Contaminated packaging
 : Empty remaining contents. Empty containers should be taken to an approved waste handling site for recycling or disposal.

#### TRANSPORT INFORMATION

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Not regulated for US domestic ground transportation.



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REGULATORY INFORMATION

#### US federal regulations

Use as aminmal feed is prohibited. This product is not known to be a "Hazardous Chemical" as defined by the OSHA Hazard Communication Stadard, 29 CFR 1910.1200. All known components are on the U.S. EPA TSCA Inventory List.

CERCLA Hazardous Substances - Not applicable

Reportable Quantity: None

Superfund Amendments and Reautorization Act of 1986 (SARA) Hazard Categories Immediate Hazard - No Delayed Hazard - No Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No



Clean Water Act Section 311 Hazardous Substances (40 CFR 117.3) - None present or none present in regulated quantitites.

California Prop 65 No ingredient regulated by Prop 65 present

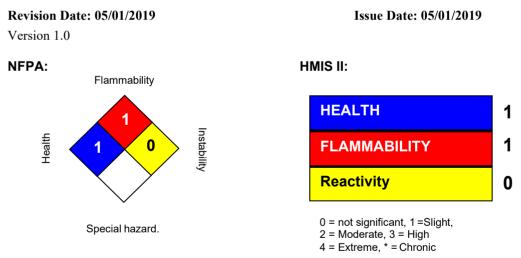
#### **Inventory Status:**

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

TSCA	On or in compliance
EU EINECS	On the inventory, or in compliance with the inventory

10 OTHER INFORMATION	16	OTHER INFORMATION
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#### **Further information**



The information provided in this Material Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.