# MATERIAL SAFETY DATA SHEET KURT J. LESKER COMPANY KJLSS15, KJLSS19, KJLSS20, KJLSS70

Section I- Product and Company Identification

Kurt J. Lesker Company		Emergency Phone Numbers:	
1925 Worthington Avenue		CHEMTREC (USA)	800-424-9300
Clairton, PA 15025			703-527-3887
			collect calls accepted
		Poison Center (USA)	800-222-1222
Business Phone: 412-387-9200; Business Fa	x: 412-384-2745	Date of Last Revision:	
		07/22/2011ewr	
Chemical Name and Synonyms:			
KJLSS15, KJLSS19, KJLSS20, KJLSS70			
CAS Number	Chemical Family:	Product Codes:	
Mixture	Semi-synthetic	KJLSS[15;19; 20; 70] Q1, O	G1, G5, G55
	Hydrocarbon		
NFPA	HMIS		
	mms		
HEA	LTH 1		
	CTIVITY 0		
	В		
	D		
$\checkmark$			

# Section II- Composition / Information on Ingredients

Name	CAS#	Concentration	
*Severely Hydrotreated & hydrocracked petroleum base oil	Mixture	0- 100%	
*Base oil may contain the following CAS numbers: 8042-47-5; 64742-46-7; 64742-47-8; 64742-53-6; 64742-54-7; 64742-55-8; 72623-84-8; 72623-85-9; 72623-86-0; 72623-87-1; 178603-64-0; 178603-65-1; 178603-66-2; 445411-73-4			

#### Section III- Potential Health Hazards

Emergency Overview:			
Clear viscous fluid. No specific hazards			
Protect eyes from mists or sprays. Protect skin from repeated or prolonged exposure. Do not store in opened or unmarked			
containers Spills create a slip hazard. Follow good industrial hygiene practice Do not ingest.			
Major routes of entry: Eye, Skin, Inhalation, Ingestion			
Effects of Overexposure:			
Eve Contact: Slightly irritating to eyes			
Skin Contact: Slightly irritating to eyes			
Inhalation: No known significant effects or critical hazards			
Ingestion: No known significant effects or critical hazards			
Chronic Health Effect Summary: No known significant effects or critical hazards			
Conditions Aggravated By Exposure: Repeated skin contact may cause local ski destruction or dermatitis. Repeated or prolonged			
contact with spray or mist may produce chronic eye irritation and severe skin irritation			
Carcinogenic Potential: This product is not known to contain any components at concentrations above 0.1% which are			
considered carcinogenic by OSHA, IARC, or NTP			
OSHA HAZARDOUS CLASSIFICATION (29CFR1910.1200)			
OSHA Heath Hazards:			
Irritant: No; Toxic: No; Corrosive: No; Sensitizer: No; Highly Toxic: No; Carcinogenic: No			
OSHA Physical Hazards:			
Combustible: No; Flammable: No; Compressed Gas: No; Explosive: No; Oxidizer: No; Organic Peroxide: No; Pyrophoric: No;			
Water-reactive: No; Unstable: No			

#### **Section IV- First Aid Measures**

Eye Contact: Flush eyes for 15 minutes w/ water, retracting eyelid often. Seek medical attention if irritation persists Skin Contact: Wash thoroughly w/ mild soap & water. Flush w/ lukewarm water for 15 minutes. Remove and clean oil soaked clothing. Discard contaminated leather goods. Seek medical attention if irritation persists. If material is injected seek medical attention immediately. If burned by hot material cool with water. Seek medical attention.

<u>Inhalation</u>: Not expected to be a problem. However, if symptoms of irritation, discomfort, or overcome, remove to fresh air. Give oxygen or artificial respiration as needed. Seek immediate medical assistance

<u>Ingestion</u>: Do not induce vomiting and do not give anything to drink unless directed by a medical physician. Seek medical attention if large quantities are swallowed or irritation or discomfort occurs.

<u>Note To Physician: SKIN:</u> In the event of injection in underlying tissue, immediate treatment should include extensive incision, debridement and saline irrigation. Inadequate treatment can result in ischemia and gangrene. Early symptoms may be minimal. <u>Ingestion, inhalation or skin contact</u>: treat symptomatically. Contact poison center if large quantities are ingested or inhaled

#### **Section V- Fire Fighting Measures**

Flash Point	Autoignition Temperature	Flammability	Lower Explosive Limit	Upper Explosive Limit
>=220C	ND	Combustible at high	ND	ND
[COC]		temperature- limits not		
		available		

Extinguishing Media: Use dry chemical, foam, carbon dioxide or water fog. Note Carbon dioxide and inert gas can displace oxygen. Observe caution when fighting fires in enclosed spaces.

<u>Special fire-fighting procedures:</u> Water or foam may cause frothing. Use water to cool fire exposed containers. Use water spray to flush spills away from exposure. Prevent runoff from entering streams, sewers, or drinking water supply.

<u>Unusual Fire Hazards</u>: This material will burn but will not readily ignite. This material will release vapors when heated above the flash point temperature that can ignite when exposed to an ignition source. In an enclosed space heated vapors can cause an explosion. Mists or sprays may burn at temperatures below the flash point.

Fire Fighting Procedure: Use SCBA and full turn out gear to fight fires. Combustion products include fumes, smoke, carbon oxides, unburned hydrocarbons, and trace oxides of sulfur and nitrogen

Special Remarks-Explosion Hazard: Do not pressurize, cut, weld, braze, solder, drill, or grind containers. Do not expose containers to heat or an ignition source

#### Section VI- Accidental Release Measures

Do not touch damaged containers or spilled materials without proper PPE.

In case of release or spill, shut off source and contain material for collection. Absorb released material w/ sand or similar absorbent. Place material into a covered container for disposal. Dispose of according to applicable local, state, federal regulations.

This material will float on water. Prevent runoff from entering streams, sewers, or drinking water supply. If the spill reaches a water source immediately notify the US Coast Guard and the EPA

#### Section VII- Handling and Storage

Avoid contamination and extreme temperatures. Observe good hygiene practices. Avoid breathing mists and vapors. Avoid contact with skin and eyes.

Wash hands after use and before handling food or applying cosmetics. Do not use tobacco products in the immediate area. Keep containers closed. Keep away from heat, sparks, flames, and strong oxidants. Do not store near combustible material, or oxidizing materials. Prevent and clean small spills immediately to prevent a slip hazard.

Keep container tightly closed. Store in a cool, dry, well ventilated area.

Empty drums retain liquid residues and/or vapors. Do not cut, weld, braze, solder, or expose drum to heat, flame, sparks, static electricity, or other ignition sources. EXPLOSION MAY OCCUR RESULTING IN SERIOUS INJURY OR DEATH. Do not reuse drum. Drain empty drums completely, properly bung and return to a drum reconditioner Dispose of used drums in accordance with all applicable state and federal regulations.

#### Section VIII- Exposure Controls, Personal Protective Equipment

<u>Respiratory Protection</u>: Good general ventilation should be adequate. If vapors or mists occur, or ventilation is inadequate use NIOSH/ MSHA approved respirators with organic vapor filter cartridges are recommended. Observe respirator limitations as listed by NIOSH/ MSHA and the equipment manufacturer.

The following limits for mist/ aerosol occurrence are recommended(as oil mist): 5mg/m<sup>3</sup> ACGIH TLV, 10mg/m<sup>3</sup> ACGIH STEL; 5mg/m<sup>3</sup> OSHA PEL

Eye Protection: ANSI Z87.1 approved safety glasses with side shields or equivalent; or chemical splash goggles. Face shields are recommended if material is heated above 125F (51C)

Skin Protection: Lab coat. For splash or liquid contact use oil resistant gloves and other protective clothing (Tyvex or neoprene) and protective boots

<u>Other Protective Equipment</u>: Safety shower and eyewash should be located near the workplace. Observe good personal hygiene practices. Wash hands and exposed areas with soap and water before eating, drinking, smoking or using toilet facilities and before leaving the work place. Do not use gasoline, kerosene, solvents, or harsh abrasives as skin cleaners. Observe exposure limits for mists and aerosols.

<u>Ventilation Requirement</u>: Local Exhaust Process away from operator at a rate of 50 feet per minute when vapors or mist are generated.

<u>Note</u>: Emissions from ventilation should be confirmed to ensure compliance to environmental air quality requirements as set forth by state and local jurisdictions. In some cases the use of scrubbers, filters, or engineering modifications to process equipment may be necessary to reduce emissions to acceptable levels.

#### Section IX- Physical And Chemical Properties

Boiling Point (°C)	: ND	Relative Density @15°C(kg/L) : 0.861-0.862 ( water=1)
Vapor Pressure	: < 0.01 mmHg @ 20°C	% Volatile by Volume : Negligible
Flash Point (open cup) Cup	: >=220°C (428°F) Cleveland Open	Vapor density :>1 (Air=1)
Solubility in Water	: insoluble in water	Odor : Mild petroleum
Color & Appearance	: Clear viscous liquid	Odor Threshold : ND
рН	: ND	Viscosity (cSt @ 40°C) : SS15=38.1; SS19=55; SS20=103; SS70=70
Pour Point (°C) SS70=-12	: SS15=-18; SS19=-15; SS20=-12	Viscosity (cSt @ 100°C) : SS15=6.2; SS19=7.6; SS20=11.4 VI: SS15=108; SS19=100; SS20=97; SS70=97

## Section X- Stability And Reactivity

Stability: This material is stable	Conditions To Avoid: Avoid extreme heat, sparks, open flame		
Hazardous Polymerization will not			
occur			
Incompatibility (materials to avoid): Strong oxidizers, reducing agents, acids, alkalis			
Hazardous Decomposition Products: see section V			

### Section XI- Toxicological Information

Product/ Ingredient Name: Mixture of severely Hydrotreated and hydrocracked petroleum base oil			
Acute Toxicity: Method	Species	Dose	Exposure
LD50 Dermal	Rabbit	>2000 mg/kg	-
LD50 Oral	Rat	>5000 mg/kg	-
LC50 Inhalation	n Rat	$>2500 \text{ mg/m}^3$	4 hours [Dust and mist inhalation]
Conclusion /Summary: Not avail	lable		
Chronic Toxicity: Conclusion /S	Summary: Not av	ailable	
Irritation/Corrosion: Conclusion /Summary: Not available			
Sensitizer: Conclusion /Summary: Not available			
Carcinogenicity: Conclusion /Summary: Not available			
Mutagenicity: Conclusion /Summary: Not available			
Teratogenicity: Conclusion /Summary: Not available			
Reproductive Toxicity: Conclusion /Summary: Not available			

# Section XII- Ecotoxicological Information

Environmental effects: No known significant effects or critical hazards Aquatic ecotoxicity: Conclusion /Summary: Not available Biodegradability: Conclusion /Summary: Not available Other adverse effects: none known

#### Section XIII- Disposal Considerations

<u>Waste Disposal</u>: Hazardous characteristics and waste stream classification may change with product use. Accordingly it is the responsibility of the user to determine the proper storage, transportation, and treatment and or disposal methodologies for spent materials and residues at the time of disposition.

Conditions of use may cause this material to become a hazardous waste as defined by federal or state regulations. It is the responsibility of the user to determine if the material is a RCRA "hazardous waste" at the time of disposal.Transportation, treatment, storage, and disposal of waste materials must be conducted in accordance with RCRA regulations (CFR40 260-271). Note State and local regulations may be more restrictive. Contact your local EPA Regional office for guidance concerning specific disposal issues.

This product must be disposed of in accordance with all applicable local, state and federal regulations

#### Section XIV- Transportation Information

<u>Shipping Class</u>: US DOT STATUS: not regulated by US Department of Transportation as a hazardous material. <u>Proper Shipping Name</u>: Not regulated; <u>Hazard Class</u>: Not Regulated, <u>Packing Group</u>: N/A,; <u>UN/NA Number</u>: Not regulated <u>Reportable Quantity</u>: A reportable quantity (RQ) has not been established for this product <u>Emergency Response Guide No:</u> N/A <u>MARPOL III Status</u>: not a DOT" Marine Pollutant" per 49 CFR 171.8

# Section XV- Regulatory Information

<u>United States HCS Classification:</u> Not regulated <u>Canadian WHMIS Classification:</u> Not controlled under WHMIS This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by Controlled Products Regulations <u>EU Regulations / Risk phrases</u>: This product is not classified according to EU legislation. International Inventories:

United States TSCA: All components are listed or exempted Canadian Inventory: All components are listed or exempted European Inventory: All components are listed or exempted

### Section XVI- Additional Information

For additional information : fluids@lesker.com

ND= No Data Available NA= Not Applicable

Kurt J. Lesker Company ("KJLC") believes the information contained in this Material Safety Data Sheet is accurate as of the "Date of Last Revision" specified. The information relates only to typical properties of the product. Do not use the information for product performance or specification purposes. The information is for use by technically skilled persons at their own risk. KJLC MAKES NO EXPRESS OR IMPLIED WARRANTY OF ANY KIND, INCLUDING WITHOUT LIMITATION WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE, WITH RESPECT TO THE PRODUCT OR THE INFORMATION. The information may not be valid for product use in combination with any other product or material or in any process. KJLC expressly disclaims any liability arising from any use of the product or any reliance on the information. Do not treat the information (a) as assurance that use of the product will not infringe patent or other rights or (b) as a license or grant of patent or other property rights. "KJLC" means KJLC and each of its subsidiaries