

HMIS RATING	
Health	1
Flammability	4
Reactivity	0

MATERIAL SAFETY DATA SHEET

NFPA 704 RATING	
Health	1
Flammability	4
Reactivity	0
NFPA 30B LEVEL	
N/A	

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1. PRODUCT IDENTIFICATION

PART NUMBER.....80-788  
PRODUCT NAME.....Open Gear & Wire Lube  
CHEMICAL FAMILY.....N/A  
DOT SHIPPING.....Consumer Commodity ORM-D

2. HAZARDOUS INGREDIENTS

SPECIFIC CHEMICAL IDENTITY, COMMON NAMES	OSHA PEL	ACGIH TLV	STEL	%
Propane/Isobutane/N-Butane (68476-86-60)	800ppm	800ppm		<30
n-Heptane (142-82-5)	400ppm	400ppm	500ppm	<25
Olefin Polymer (Proprietary)	5mg/m <sup>3</sup>	5mg/m <sup>3</sup>	10mg/m <sup>3</sup>	<20

All chemical compounds marked with an asterisk (\*) are toxic chemicals subject to the reporting of Section 313 of Title III of the Superfund Amendments and Reauthorization Act (SARA) of 1986 and 40 CFR Part 372. You must notify each person to whom this mixture of trade name product is sold. This statement must not be detached. Any copy or redistribution of this Material Safety Data Sheet shall include this statement. \*\*Ceiling

3. PHYSICAL DATA

BOILING POINT (RANGE).....-43 - 209°F  
VAPOR PRESSURE PSIG @ 70°F.....80-90  
VAPOR DENSITY (AIR = 1).....>1  
SOLUBILITY IN WATER.....Negligible  
SPECIFIC GRAVITY (H<sub>2</sub>O = 1).....0.6535  
MELTING/FREEZING POINT.....32  
EVAPORATION RATE (61% = 1).....Faster than Butyl Acetate  
VOC content (by weight).....352 g/L  
APPEARANCE AND ODOR.....Dark brown/black liquid with solvent odor

4. FIRE AND EXPLOSION DATA

FLASH POINT.....-156°F  
UPPER EXPLOSIVE LIMIT (%).....9.5  
LOWER EXPLOSIVE LIMIT (%).....1.2  
EXTINGUISHING MEDIA.....Fire-fighting foam, CO<sub>2</sub>, dry chemical, Water fog.  
SPECIAL FIREFIGHTING PROCEDURES.....Containers can build up pressure if exposed to heat (fire). As in any fire, wear self-contained breathing apparatus pressure-demand (MSHA/NIOSH) and full protective cans.  
FIRE AND EXPLOSION HAZARDS.....Vapors can travel to a sources of ignition and flash back. "Empty" containers retain product residue (liquid and/or vapor) and can be dangerous. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose such containers to heat, flamer sparks, static electricity or other sources of ignition; they may explode or cause injury or death. Empty drums should be drained, properly bunged and promptly returned to a drum reconditioner, or promptly disposed of.

5. HEALTH EFFECTS DATA

SHORT TERM EFFECTS OF EXPOSURE

ROUTE OF ENTRY.....Skin Contact, Skin Absorption, Inhalation, Ingestion and Eye Contact.  
HEALTH HAZARDS (ACUTE AND CHRONIC).....Overexposure may cause nervous system damage, lung damage and kidney damage.  
EYE CONTACT.....Irritation causes pain, tearing, reddening and swelling accompanied by stinging sensation.  
SKIN CONTACT.....Prolonged or repeated contact could cause defatting and drying of skin. Irritation to skin and dermatitis.  
INGESTION.....Harmful or fatal if swallowed. Corrosive and may cause severe & permanent damage to mouth, throat and stomach.  
INHALATION.....Headaches, dizziness, nausea, decrease blood pressure, changes in heart rate and cyanosis may result from overexposure.

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE.....None Listed

5. HEALTH EFFECTS DATA CONT

FIRST AID PROCEDURES

EYE CONTACT.....Hold eyelids apart and immediately flush eyes with plenty of water. Get medical attention, if irritation persists.  
SKIN CONTACT.....Immediately flush skin with plenty of water. Remove Clothing. Get medical attention immediately. Wash clothing separately before reuse.  
INGESTION.....Get medical attention immediately. If swallowed, DO NOT INDUCE VOMITING unless directed to do so by medical personnel. Never give anything by mouth to an unconscious victim or a person losing consciousness.  
INHALATION.....Remove the person away from exposure to fresh air. If not breathing give artificial respiration. If have trouble breathing, give oxygen. Get immediate medical attention.

SPECIAL HEALTH EFFECTS

CARCINOGEN (OSHA Guidelines).....Not presently on any lists.

6. REACTIVITY

STABILITY.....Stable  
INCOMPATIBILITIES.....All sources of ignition, welding arcs and open flames.  
HAZARDOUS DECOMPOSITION PRODUCTS.....Oxides of carbon, nitrogen and may produce forms of chloride, chlorine and phosgene.  
HAZARDOUS POLYMERIZATION.....Will not occur under normal conditions.  
HAZARDOUS POLYMERIZATION CONDITIONS.....None known.

7. PRECAUTIONS FOR SAFE HANDLING & USE

PROTECTIVE EQUIPMENT

REQUIREMENTS.....Local exhaust ventilation may be necessary to control any air contaminants to within their TLVs during use. NIOSH/MSHA approved air purifying respirator with an organic vapor cartridge. Where contact is expected wear chemical resistant gloves, a chemical suit, rubber boot, and chemical safety goggles and plus face shield.  
WASH REQUIREMENTS.....Wash with soap and water.  
SPILL OR LEAK PROCEDURES.....Absorb spill with inert material (e.g. dry sand or earth), then place in chemical waste container.  
WASTE DISPOSAL METHODS.....Dispose of in accordance with local, state, and federal regulations.  
HANDLING & STORAGE.....Wash thoroughly after handling. Do not allow to freeze. Avoid temperatures above 120°F  
OTHER PRECAUTIONS.....Use NIOSH approved respirator with an organic vapor cartridge; avoid prolonged breathing of vapors; protection provided by air purifying respirators is limited.

8. ADDITIONAL INFORMATION

Use self-contained breathing apparatus if TLV limits are exceeded. Do not eat or smoke while using. Wash hands after use. Use positive pressure air supplied respirator if there is potential for uncontrolled release, if exposure levels are unknown, or in any circumstance where air purifying respirators may not provide adequate protection.

THE INFORMATION GIVEN AND THE RECOMMENDATIONS MADE HEREIN APPLY TO OUR PRODUCT(S) ALONE AND ARE NOT COMBINED WITH OTHER PRODUCTS. SUCH INFORMATION IS BASED UPON OUR RESEARCH AND ON DATA FROM OTHER RELIABLE SOURCES AND IS BELIEVED TO BE ACCURATE. NO GUARANTEE OF ACCURACY IS MADE. IT IS THE PURCHASER'S RESPONSIBILITY BEFORE USING ANY PRODUCT TO VERIFY THIS DATA UNDER THEIR OWN OPERATING CONDITIONS AND TO DETERMINE WHETHER THE PRODUCT IS SUITABLE FOR THEIR PURPOSES.

**KIMBALL  
MIDWEST**

Specializing in Materials Management since 1923