

LUBRICATION ENGINEERS®, INC.  
300 Bailey Avenue FORT WORTH, TX 76107  
MATERIAL SAFETY DATA SHEET  
SECTION I - PRODUCT IDENTIFICATION

SUPPLIER:  
Lubrication Engineers®, Inc.  
300 Bailey Avenue  
Fort Worth, TX 76107

EMERGENCY TELEPHONE NUMBERS.:  
Company: (817) 834-6321  
In the event of an emergency spill, fire, or exposure—Call:  
Chemtrec: (Within USA) (800) 424-9300  
(Outside USA—call collect) (703) 527-3887  
TRADE NAME AND SYNONYMS:  
9011 PYROSHIELD® Syn XHvy Open Gear  
Lubricant

CHEMICAL NAME AND SYNONYMS:  
Not applicable

CHEMICAL FAMILY:  
Synthetic-Hydrocarbon

FORMULA:  
Not applicable

\*\*\*\*\*SECTION II\*\*\*\*\*

TYPICAL CHEMICAL AND PHYSICAL PROPERTIES

APPEARANCE: Purple lubricant  
VISCOSITY: @ 210°F, SUS 5149\* @ 100°C, cSt 1104\*  
ODOR: Grape odor  
VISCOSITY: @ 100°F, SUS 167100\* @ 40°C, cSt 36070\*  
RELATIVE DENSITY: (Air=1) >1  
SOLUBILITY IN WATER: Negligible PH: 6-8  
MELTING POINT: °F Not applicable  
POUR POINT: °F +32  
BOILING POINT: °F >500  
FLASH POINT: °F (Method) 235 (C.O.C.)  
VAPOR PRESSURE: (mm Hg @ 60°F) <5  
SPECIFIC GRAVITY: (H<sub>2</sub>O=1) 0.90

\*Without diluent

\*\*\*\*\*SECTION III\*\*\*\*\*

INGREDIENTS

HAZARDOUS INGREDIENTS:	WT PCT (APPROX)	TLV	ORAL LD50	DERMAL LD50
Oil Mist (mineral)	<4	5mg/m <sup>3</sup> -TWA	Unknown	Unknown
Phosphoric acid esters, amine salt	0.70-7.5	Unknown	Unknown	Unknown
Alkenyl amine	<1.0	Unknown	Unknown	Unknown
Dibutylhydrogen phosphite	<1.0	Unknown	Unknown	Unknown

NON-HAZARDOUS INGREDIENTS:

ADDITIVES AND/OR OTHER INGREDIENTS: This product is a mixture. The specific chemical identity of hazardous ingredients and non-hazardous ingredients, their C.A.S. numbers and their exact percent of composition are proprietary to Lubrication Engineers®, Inc. and are being withheld as Trade Secrets. The above listing of hazardous ingredients discloses the properties, approximate concentration and known toxicological effects of the hazardous ingredients. This material is an automotive/industrial lubricant with a low order of toxicity and irritancy. The product is formulated with ingredients that are not designated as harmful to the ozone.

REGULATORY INFORMATION:

SARA Title III: This product does not contain any chemical substance on the SARA Extremely Hazardous Substances list. If this product contains any chemicals that are subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372, they will be listed in the above HAZARDOUS INGREDIENTS section.

TSCA: This material is in compliance with the Toxic Substances Control Act (15 USC 2601-2629) and all components of this product appear on the Toxic Substance Control Act (TSCA) inventory list.

Clean Air Act: No ozone depleting chemicals listed in Title VI, Stratospheric Ozone Protection, Section 602 of the Clean Air Act are present or used in the manufacturing process of this product.



SPECIAL PROTECTION INFORMATION

EYE PROTECTION:

Sufficient to avoid direct contact.

SKIN PROTECTION:

Protective neoprene or plastic gloves may be desired.

RESPIRATORY PROTECTION:

Usually not needed in open, unconfined areas.

VENTILATION:

Usually not needed in open, unconfined areas.

OTHER:

Usually not needed.

\*\*\*\*\*SECTION X\*\*\*\*\*

SPECIAL PRECAUTIONS

Close containers when not in use. Keep away from heat, sparks, open flames, and strong oxidants. Avoid eye contact and prolonged skin contact. Avoid breathing oil mists. Wash thoroughly after handling.

\*\*\*\*\*SECTION XI\*\*\*\*\*

HAZARD RATINGS

There are several recognized and accepted systems that assign hazard ratings to materials. Although this product has not been evaluated specifically against these systems, the ratings for the National Fire Protection Association (NFPA) and the National Paint and Coatings Association's Hazardous Material Identification System (HMIS) are:

	NFPA	HMIS
Health	2	1
Flammability	1	1
Reactivity	1	1