

TESLA CORPORATION
PO BOX 114132, Dubai, UAE
MATERIAL SAFETY DATA SHEET
Section 1 - PRODUCT IDENTIFICATION

SUPPLIER
Tesla Corporation,
PO BOX 114132, Dubai, UAE
CHEMICAL NAME AND SYNONYMS
Not applicable
CHEMICAL FAMILY
Hydrocarbon

EMERGENCY TELEPHONE NUMBERS
Company (+971) 561144201

TRADE NAME AND SYNONYMS
POLARIS FS 1120, SAE 5W30

FORMULA
Not applicable

Section II - TYPICAL CHEMICAL AND PHYSICAL PROPERTIES	
APPEARANCE	Clear bright yellow liquid
ODOR	Lube Oil odor
RELATIVE DENSITY (Air=1)	>1
MELTING POINT, °C	> 260
VAPOR PRESSURE (mm Hg at 15.0 °C)	<5
pH	6-8
Viscosity, cst at 40° C	55
Viscosity, cst at 100° C	9.9
Solubility in Water	NEGLECTIBLE
Flash Point, Open Cup, °C	214
Sp. Gravity (H ₂ O=1)	0.87 approx

Section III - INGREDIENTS

HAZARDOUS INGREDIENTS	Wt. Pct (Approx)	TLV	ORAL LD 50	DERMAL LD 50
Fatty Acid Esters	25-35	5 mg/m ³ - TWA	>5 mg/m ³ Rat	>2 mg/m ³ Rat
Antimony dialkyldithiocarbamate	3.0-7.0	0.5 mg/m ³ as Sb	>16400 mg/kg r _i	>16 mg/m ³ Rat
Antimony compounds (non-toxic liquid organo metallic compound)	3.0-7.0	0.5 mg/m ³ as Sb	>16400 mg/kg r _i	>16 mg/m ³ Rat
Zinc dialkyldithiophosphate	<1.0	Unknown	>2 mg/m ³ Rat	>2 mg/m ³ Rat
Zinc compounds	<1.0	Unknown	>2 mg/m ³ Rat	>2 mg/m ³ Rat
Fatty acid derivative of 4,5 Dihydro-1H-imidazole	<1.0	Unknown	>2 mg/m ³ Rat	Unknown
Ashless dithiocarbamate	0.5-2.0	Unknown	>16 mg/m ³ Rat	>2 mg/m ³ Rat

NON-HAZARDOUS INGREDIENTS

ADDITIVE AND/OR OTHER INGREDIENTS: This product is a mixture. The specific chemical identify of hazardous ingredients and non-hazardous ingredients, their C.A.S numbers and their exact percentage are proprietary to TESLA Corporation, 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 odor of toxicity and irritancy. The products is formulated with ingredients that are not designated as harmful to 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 31 of Title III of the Superfund Amendments and Re-authorization 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

Section IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT, °C (Method)	214	COC	FLAMMABLE LIMITS:	LEL	UEL
				Unknown	

EXTINGUISHING MEDIA

Foam, dry chemical, water fog or carbon dioxide

SPECIAL FIRE FIGHTING PROCEDURES

Do not direct a solid stream of water into fire. Treat as a petroleum fire. Respiratory protection required for fire fighting personnel

UNUSUAL FIRE AND EXPLOSION HAZARDS

None

Section V - HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE (If Established)

Not established. Oil Mist = 5 mg/m³

EFFECTS OF OVEREXPOSURE

Although there are no consistent primary routes of entry, the product may cause mild dermatitis upon prolonged contact and is expected to be an eye and lung irritant. An existing skin, eye or lung irritation may be aggravated by direct contact. No components are listed on the OSHA, IARC or NTP list of carcinogens

SECTION VI - EMERGENCY AND FIRST AID PROCEDURES

EYE CONTACT

Flush immediately with water until irritation subsides

POLARIS FS 1120, SAE 5W30

Effective Date 1-Dec-11

Print Date: 3/19/2014

Page 1 of 2

TESLA CORPORATION
PO BOX 114132, Dubai, UAE

MATERIAL SAFETY DATA SHEET
POLARIS FS 1120, SAE 5W30

TRADE NAME AND SYNONYMS

SKIN CONTACT

Wash affected skin area with mild soap and water

INGESTION

Do not induce vomiting. Contact a Physician

INHALATION

Remove to fresh air. If not breathing, give artificial respiration. Contact a physician

SECTION VII - REACTIVITY DATA

STABILITY (Thermal, Light, Etc.)

Stable

CONDITIONS TO AVOID

Contact with nuclear radiation and strong oxidising agents

INCOMPATIBILITY (Materials to avoid)

Strong oxidizing materials

HAZARDOUS DECOMPOSITION PRODUCTS

Dense smoke, oxides of C, S, Mg, Ca, N, P, Zn and B. hydrogen sulfide

HAZARDOUS POLYMERIZATION

Will not occur

SECTION VIII SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED

Remove all sources of ignition. Treat as a petroleum oil spill

WASTE DISPOSAL METHOD

Incinerate where permitted under federal, state and local laws. Used petroleum products may be recycled through re-refining process

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 IX 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 X HAZARD RATINGS

There are several recognised 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 Coating Association's Hazardous Material Identification Systems (HMIS) are:

	NFPA	HMIS
Health	2	1
flammability	1	1
Reactivity	1	1