

TESLA CORPORATION  
PO BOX 114132, Dubai, UAE  
MATERIAL SAFETY DATA SHEET

**Section 1 - PRODUCT IDENTIFICATION**

**SUPPLIER**

Tesla Corporation,  
PO BOX 114132, Dubai, UAE

**EMERGENCY TELEPHONE NUMBERS**

Company (+971) 561144201

**CHEMICAL NAME AND SYNONYMS**

Not applicable

**TRADE NAME AND SYNONYMS**

POLARIS FS 1120, SAE 5W40

**CHEMICAL FAMILY**

Hydrocarbon

**FORMULA**

Not applicable

**Section II - TYPICAL CHEMICAL AND PHYSICAL PROPERTIES**

**APPEARANCE**

Clear bright yellow liquid

Viscosity, cst at 40° C

75.7

**ODOR**

Lube Oil odor

Viscosity, cst at 100° C

14.1

**RELATIVE DENSITY (Air=1)**

>1

pH

6-8

Solubility in Water

NEGLIGIBLE

**MELTING POINT, °C**

> 260

Flash Point, Open Cup, ° C

220

VAPOR PRESSURE (mm Hg at 15.0 °C)

<5

Sp. Gravity (H<sub>2</sub>O=1)

0.87 approx

**Section III - INGREDIENTS**

**HAZARDOUS INGREDIENTS**

Wt. Pct

TLV

ORAL

DERMAL

(Approx)

LD 50

LD 50

Fatty Acid Esters

25-35

5 mg/m<sup>3</sup> - TWA

>5 mg/m<sup>3</sup> Rat

>2 mg/m<sup>3</sup> Rat

Antimony dialkyldithiocarbamate

3.0-7.0

0.5 mg/m<sup>3</sup> as Sb

>16400 mg/kg r;

>16 mg/m<sup>3</sup> Rat

Antimony compounds (non-toxic liquid organo metallic compound)

3.0-7.0

0.5 mg/m<sup>3</sup> as Sb

>16400 mg/kg r;

>16 mg/m<sup>3</sup> Rat

Zinc dialkyldithiophosphate

<1.0

Unknown

>2 mg/m<sup>3</sup> Rat

>2 mg/m<sup>3</sup> Rat

Zinc compounds

<1.0

Unknown

>2 mg/m<sup>3</sup> Rat

>2 mg/m<sup>3</sup> Rat

Fatty acid derivative of 4,5 Dihydro-1H-imidazole

<1.0

Unknown

>2 mg/m<sup>3</sup> Rat

Unknown

Ashless dithiocarbamate

0.5-2.0

Unknown

>16 mg/m<sup>3</sup> Rat

>2 mg/m<sup>3</sup> 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 produt 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)**

220

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/m<sup>3</sup>

**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

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Effective Date 1-Dec-11

Print Date:

3/19/2014

Page 1 of 2

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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