

# SAFETY DATA SHEET

Lubricant



## Section 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

**PRODUCT NAME:** Lubricant

**Manufacturer:** SPLENDOR INDUSTRY COMPANY LTD

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## Section 2 - HAZARDS IDENTIFICATION

### HAZARD DESCRIPTION

Information pertaining to particular dangers for man and environment

R 11

R 20/21/22 Harmful by inhalation, in contact with skin and if swallowed.

R 36 Irritating to eyes.

R 68/20/21/22 Harmful: possible risk of irreversible effects through inhalation, in contact with skin and if swallowed.

R 67 Vapours may cause drowsiness and dizziness

### Classification system

### HMIS ratings (scale 0-4)

### (Hazardous Materials Identification System)

HEALTH 1 Health (acute effects) = 1

FIRE 3 Flammability = 3

REACTIVITY 1 Reactivity = 1

## Section 3 - COMPOSITION / INFORMATION ON INGREDIENTS

NAME	%
Kerosene	80
Lubricating Grease	15
Base Oil	5

## Section 4 - FIRST AID MEASURES

### General information

Immediately remove any clothing soiled by the product.

Remove breathing apparatus only after contaminated clothing has been completely removed.

In case of irregular breathing or respiratory arrest provide artificial respiration.

### After inhalation

Supply fresh air. If required, provide artificial respiration. Keep patient warm.

Seek immediate medical advice.

### After skin contact

Immediately wash with water and soap and rinse thoroughly.

Seek immediate medical advice.

#### **After eye contact**

Rinse opened eye for several minutes under running water. Then consult a doctor.

#### **After swallowing**

Do not induce vomiting; immediately call for medical help. Seek immediate medical advice.

#### **Information for doctor**

#### **The following symptoms may occur:**

Nausea; Headache; Gastric or intestinal disorders; Dizziness; Unconsciousness

## **Section 5 - FIRE FIGHTING MEASURES**

#### **Suitable extinguishing agents**

Carbon dioxide, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

#### **Special hazards caused by the material, its products of combustion or resulting gases:**

In case of fire, the following can be released: Carbon monoxide and carbon dioxide

#### **Protective equipment:**

Wear self-contained respirator. Wear fully protective impervious suit.

## **Section 6 - ACCIDENTAL RELEASE MEASURES**

#### **Person-related safety precautions:**

Wear protective equipment. Keep unprotected persons away.

Ensure adequate ventilation Keep away from ignition sources

#### **Measures for environmental protection:**

Do not allow material to be released to the environment without proper governmental permits.

#### **Measures for cleaning/collecting:**

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Dispose contaminated material as waste according to item 13. Ensure adequate ventilation. Keep away from ignition sources.

#### **Additional information:**

See Section 7 for information on safe handling

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

## **Section 7 - HANDLING AND STORAGE**

#### **Information for safe handling:**

Keep container tightly sealed. Store in cool, dry place in tightly closed containers. Ensure good ventilation at the workplace. Open and handle container with care.

#### **Information about protection against explosions and fires:**

Keep ignition sources away. Protect against electrostatic charges.

Fumes can combine with air to form an explosive mixture.

**Storage:** Store in a cool location.

**Information about storage in one common storage facility:**

Do not store together with oxidizing and acidic materials. Do not store together with alkalies (caustic solutions). Store away from halogens.

**Further information about storage conditions:**

Keep container tightly sealed. Store in cool, dry conditions in well sealed containers.

<b>Section 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION</b>
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**Additional information about design of technical systems:**

Properly operating chemical fume hood designed for hazardous chemicals and having an average face velocity of at least 100 feet per minute.

**Components with limit values that require monitoring at the workplace:**

Ethyl alcohol	ppm
ACGIH TLV	1000-STEL; Confirmed animal carcinogen with unknown relevance to humans.
Austria MAK	1000
Belgium TWA	1000
Denmark TWA	1000
Finland TWA	1000; 1250-STEL
France VME	1000; 5000-VLE
Germany MAK	1000
Korea TLV	1000
Netherlands MAC-TGG	500
Norway TWA	500
Poland TWA	1000 mg/m <sup>3</sup> ; 3000 mg/m <sup>3</sup> -STEL
Russia	1000 mg/m <sup>3</sup> -STEL
Sweden NGV	500; 1000-KTV
Switzerland MAK-W	1000
United Kingdom TWA	1000
OSHA PEL	1000
Methyl alcohol	ppm
ACGIH TLV	200; 250-STEL (skin)
Austria MAK	200 (skin)
Belgium TWA	200; 250-STEL, (skin)
Denmark TWA	200 (skin)
Finland TWA	200; 250-STEL (skin)
France VME	200; 1000-VLE
Hungary TWA	50 mg/m <sup>3</sup> ; 100 mg/m <sup>3</sup> -STEL (skin)
Japan OEL	200 (skin)
Korea TLV	200; 250-STEL (skin)
Netherlands MAC-TGG	200 (skin)
Norway TWA	100

Poland TWA	100 mg/m <sup>3</sup> ; 300 mg/m <sup>3</sup> -STEL
Russia TWA	200; 5 mg/m <sup>3</sup> -STEL (skin)
Sweden NGV	200; 250-KTV (skin)
United Kingdom TWA	200; 250-STEL (skin)
OSHA PEL	200
Isopropyl alcohol (2-Propanol)	ppm
ACGIH TLV	400; 500-STEL
Austria MAK	400
Belgium TWA	400; 500-STEL
Denmark TWA	200
France VLE	400
Germany MAK	400
Ireland TWA	400; 500-STEL (skin)
Japan TWA	400-STEL
Korea TWA	400; 500-STEL
Netherlands MAC-TGG	400 (skin)
Norway TWA	100
Poland TWA	900; 1200-STEL
Russia TWA	400-STEL
Sweden NGV	150; 250-STEL
Switzerland MAK-W	400
United Kingdom TWA	400; 500-STEL
OSHA PEL	400

#### **Additional information:**

No data

#### **Personal protective equipment**

##### **General protective and hygienic measures**

The usual precautionary measures for handling chemicals should be followed. Keep away from foodstuffs, beverages and feed.

Remove all soiled and contaminated clothing immediately.

Wash hands before breaks and at the end of work. Store protective clothing separately.

##### **Breathing equipment:**

**Use suitable respirator when high concentrations are present.**

##### **Protection of hands:**

Impervious gloves

##### **Eye protection:**

Safety glasses

##### **Body protection:**

Protective work clothing.

## Section 9 - PHYSICAL AND CHEMICAL PROPERTIES

### General Information

<b>Form:</b>	Liquid
<b>Color:</b>	Colorless
<b>Odor:</b>	Alcohol-like
<b>Change in condition</b>	
<b>Melting point/Melting range:</b>	-114°C (-173°F)
<b>Boiling point/Boiling range:</b>	78°C (172°F)
<b>Sublimation temperature / start:</b>	Not determined
<b>Flash point:</b>	8°C (46°F)
<b>Ignition temperature:</b>	362°C (684°F)
<b>Decomposition temperature:</b>	Not determined
<b>Explosion limits:</b>	
<b>Lower:</b>	3.3 Vol %
<b>Upper:</b>	19.0 Vol %
<b>Vapor pressure at 20°C (68°F):</b>	58.5 hPa (44 mm Hg)
<b>Density at 20°C (68°F):</b>	0.79 g/cm <sup>3</sup>
<b>Solubility in / Miscibility with</b>	
<b>Water:</b>	Fully miscible
<b>Alcohols:</b>	Soluble

## Section 10 - CHEMICAL STABILITY AND REACTIVITY INFORMATION

### Thermal decomposition / conditions to be avoided:

Decomposition will not occur if used and stored according to specifications.

### Materials to be avoided:

Halogens Oxidizing agents Bases Acid chlorides Acid anhydrides

Alkali metals

**Dangerous reactions:** Reacts with oxidizing agents

**Dangerous products of decomposition:** Carbon monoxide and carbon dioxide

## Section 11 - TOXICOLOGICAL INFORMATION

### Acute toxicity:

#### LD/LC50 values that are relevant for classification:

ORL-RAT LD50: 7060 MG/KG (ETHANOL)

ORL-MUS LD50: 3450 MG/KG (ETHANOL)

IHL-RAT LC50: 20000 PPM/10H (ETHANOL)

ORL-RAT LD50: 5628 MG/KG (METHANOL)

ORL-MUS LD50: 7300 MG/KG (METHANOL)

SKN-RBT LD50: 15800 MG/KG (METHANOL)

ORL-HMN LDLo: 143 MG/KG (METHANOL)

ORL-RAT LD50: 5045 MG/KG (ISOPROPANOL)

ORL-MUS LD50: 3600 MG/KG (ISOPROPANOL)

SKN-RBT LD50: 12800 MG/KG (ISOPROPANOL)

ORL-HMN LD50: 3570 MG/KG (ISOPROPANOL)

**Primary irritant effect:**

**on the skin:** Irritant to skin and mucous membranes.

**on the eye:** Irritating effect.

**Sensitization:** No sensitizing effects known.

**Other information (about experimental toxicology):**

Reproductive effects have been observed on tests with laboratory animals.

**Subacute to chronic toxicity:**

2-Propanol (isopropyl alcohol) may act as a local irritant and in high concentrations as a narcotic with symptoms such as headache, nausea, dizziness, vomiting, mental depression, anesthesia, and coma. Similar symptoms may be caused by ingestion. It can cause corneal burns on contact with the eyes and has caused teratogenic, mutagenic and reproductive effects in laboratory animals. Symptoms of methanol overexposure may include intoxication, headache, drowsiness, nausea, vomiting, blurred vision, blindness, coma and death. It is a defatting agent and can cause skin and eye irritation. Absorption through the skin is possible. Chronic exposure may cause liver and eye injury. Ethyl alcohol is rapidly oxidized in the body and is less toxic than methyl alcohol. Exposure to high vapor concentrations may cause upper respiratory tract irritation and eye irritation. It is a central nervous system depressant and ingestion leads to drowsiness, lassitude, loss of appetite and inability to concentrate. Mutagenic and teratogenic data have been reported.

**Additional toxicological information:**

To the best of our knowledge the acute and chronic toxicity of this substance is not fully known.

IARC-3: Not classifiable as to carcinogenicity to humans. ACGIH A4: Not classifiable as a human carcinogen: Inadequate data on which to classify the agent in terms of its carcinogenicity in humans and/or animals.

## **Section 12 - ECOLOGICAL INFORMATION**

**General notes:**

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

Do not allow material to be released to the environment without proper governmental permits.

## **Section 13 - DISPOSAL CONSIDERATIONS**

**Product:**

**Recommendation**

Consult state, local or national regulations to ensure proper disposal.

**Uncleaned packagings:**

**Recommendation:** Disposal must be made according to official regulations.

## **Section 14 - TRANSPORTATION INFORMATION**

**DOT regulations:**

<b>Hazard class:</b>	3
<b>Identification number:</b>	UN1170
<b>Packing group:</b>	II
<b>Proper shipping name (technical name):</b>	ETHANOL SOLUTION
<b>Label</b>	3
<b>Land transport ADR/RID(cross-border)</b>	
<b>ADR/RID class:</b>	3 (F1) Flammable liquids
<b>Danger code (Kemler):</b>	33
<b>UN-Number:</b>	1170
<b>Packaging group:</b>	II
<b>Description of goods:</b>	1170 ETHANOL SOLUTION (ETHYL ALCOHOL SOLUTION)
<b>Maritime transport IMDG:</b>	
<b>IMDG Class:</b>	3
<b>UN Number:</b>	1170
<b>Label</b>	3
<b>Packaging group:</b>	II
<b>Proper shipping name:</b>	ETHANOL SOLUTION (ETHYL ALCOHOL SOLUTION)
<b>Air transport ICAO-TI and IATA-DGR:</b>	
<b>ICAO/IATA Class:</b>	3
<b>UN/ID Number:</b>	1170
<b>Label</b>	3
<b>Packaging group:</b>	II
<b>Proper shipping name:</b>	ETHANOL SOLUTION

**Section 15 - REGULATORY INFORMATION****Product related hazard informations:****Hazard symbols:**

Xn	Harmful
F	Highly flammable

**Risk phrases:**

11	Highly flammable.
20/21/22	Harmful by inhalation, in contact with skin and if swallowed.
36	Irritating to eyes.
68/20/21/22	Harmful: possible risk of irreversible effects through inhalation, in contact with skin and if swallowed.
67	Vapours may cause drowsiness and dizziness

**Safety phrases:**

16	Keep away from sources of ignition - No smoking.
24/25	Avoid contact with skin and eyes.
26	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
36/37	Wear suitable protective clothing and gloves.
45	In case of accident or if you feel unwell, seek medical advice immediately.

**National regulations**

All components of this product are listed in the U.S. Environmental Protection Agency Toxic Substances Control Act Chemical substance Inventory. This product contains a chemical known to the state of California to cause cancer or reproductive toxicity. All components of this product are listed on the Canadian Domestic Substances List (DSL).

**Information about limitation of use:**

For use only by technically qualified individuals.

This product is subject to the reporting requirements of section 313 of the Emergency Planning and Community Right to Know Act of 1986 and 40CFR372.

<b>Section 16 - OTHER INFORMATION</b>
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Employers should use this information only as a supplement to other information gathered by them, and should make independent judgement of suitability of this information to ensure proper use and protect the health and safety of employees. This information is furnished without warranty, and any use of the product not in conformance with this Material Safety Data Sheet, or in combination with any other product or process, is the responsibility of the user.

\*\*\*\*\*End of MSDS\*\*\*\*\*

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