

PRODUCT: SINGER LUBRICATING OIL

Page 1 of 6

Date: 10/31/2013 FDS No.: SdB 001 Version: 4.0 Cancels and supersedes version: All previous versions

1 – PRODUCT AND COMPANY IDENTIFICATION

Product Name: Singer Oil
Internal identification code: 20003-600
Company: SINGER DO BRASIL IND. E COM. LTDA
Address: Estrada Municipal Henrique Schultz, s/nº, Gleba 1B, Bairro Santa Idalina, Distrito de Cardeal – Elias Fausto – S.P.
ZIP CODE: 13350-000
Telephone Number: (0xx19) 2107-4614
Fax Number: (0xx19) 2107-4844
Emergency Telephone Number: **0800-707-7022**

2 – COMPOSITION AND INFORMATION ON INGREDIENTS

PREPARATION

Chemical Nature: Lubricating oil formulated from properly refined petroleum mineral oils of the paraffinic type, composed of alkane and cycloalkane hydrocarbons, with lower contents of aromatic hydrocarbons.

Ingredients or impurities contributing to hazard: Heavy paraffinic hydrocarbons;
Naphthenic hydrocarbons;
Aromatic hydrocarbons;
Sulfur (CAS 7704-34-9): 0.3% (w/w).

3 – HAZARD IDENTIFICATION

MAJOR HAZARDS

- Specific hazards: Slightly toxic product.

PRODUCT EFFECTS

- Adverse effects on human health: Slightly toxic.

4 – FIRST-AID MEASURES

Inhalation: Remove the victim to fresh air. If the victim is not breathing, apply artificial respiration. If breathing is difficult, give oxygen at a flow rate of 10 to 15 liters/minute. Seek medical attention immediately, taking the product label with you, if possible.

Skin contact: Remove contaminated clothing and footwear right away. Flush skin with plenty of water for at least 20 minutes, preferably under a safety shower. Seek medical attention immediately, taking the product label with you, if possible.

Eye contact: Flush eyes with plenty of water for at least 20 minutes, holding eyelids open. Preferably use an eye wash fountain. Seek medical attention immediately, taking the product label with you, if possible.

Ingestion: Do not induce vomiting. If the victim is conscious, wash his/her mouth out with copious amounts of clean water and give him/her water to drink. Seek medical attention immediately, taking the product label with you, if possible.

PRODUCT: SINGER LUBRICATING OIL

Page 2 of 6

Date: 10/31/2013 FDS

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5 – FIREFIGHTING MEASURES

Suitable extinguishing media:	Foam for hydrocarbons, water mist, dry chemical (powder), and carbon dioxide (CO ₂).
Unsuitable extinguishing media:	Solid water jet/stream, owing to the risk of combustion [burning] material spread.
Specific hazards:	Normal combustion produces carbon dioxide (CO ₂), water vapor, sulfur and nitrogen oxides. Incomplete combustion may produce carbon monoxide.
Special methods:	Cool fire-exposed containers and environment with water spray/mist. Sand may be used to control small fire sources. Remove the containers from the area of fire if this can be done without any risk.
Firefighter protection:	In fires involving this product, do not enter a confined space without appropriate personal protective equipment, including a self-contained breathing apparatus.

6 – ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS:

- Remove sources of ignition:	Eliminate all sources of ignition, avoid sparks, flashes, flames, and do not smoke in the risk area. Isolate the leak from all sources of ignition.
- Dust control:	Not applicable (liquid product).
- Prevention of inhalation and contact with skin, mucous membranes, and eyes:	Wear boots, cotton overalls, impervious gloves and apron, hermetic chemical safety goggles, and appropriate respiratory protection.

ENVIRONMENTAL PRECAUTIONS:

Stop the leak if this can be done without any risk. Do not allow the spread material to enter public drainage system. Avoid the possibility of superficial water or spring water contamination. Restrict the leak to the smallest possible area. Dragging with water must take into consideration subsequent treatment of contaminated water. Avoid such dragging.

CLEANING UP METHODS:

- Recovery:	Recover the product, pumping it into a duly labeled, well-closed emergency container. Keep the recovered product for later discard. Do not use water to avoid product spread and skidding.
- Neutralization:	Absorb the product with earth or other absorbent material.
- Disposal:	Do not dispose of as ordinary garbage. Do not discard in sewers or watercourses. If possible, confine the product for later recovery or discard. Final disposal of this material should be supervised by a specialist and comply with current environmental regulations.

NOTE:

Notify the local environmental authority in case of leaks or contamination of superficial water, spring water, or soil.

PRODUCT: SINGER LUBRICATING OIL

Page 3 of 6

Date: 10/31/2013 FDS No.: SdB 001 Version: 4.0 Cancels and supersedes version: All previous versions

7 – HANDLING AND STORAGE

Technical measures:

- Prevention of worker's exposure: Make use of personal protective equipment (PPE) to avoid direct contact with the product.
- Prevention of fire and explosion: Empty containers should not be welded, heated, or punctured, as there is the risk of explosion. The use of pressure to empty drums may also result in explosion.
- Precautions for safe handling: Provide local exhaust ventilation if required by the processes. All conductive elements of the system in contact with the product should be electrically grounded. Use nonsparking tools.
- Directions for safe handling: Handle the product in accordance with general safety and industrial hygiene regulations.

STORAGE**Technical measures:**

The storage area should have impervious flooring, free of combustible materials, with a contention dike to retain the product in case of leaks.

Storage conditions:

- Adequate: Store at ambient temperature. Temperatures above 60°C and at atmospheric pressure [sic]. Temperature of 60°C favors product flow. Containers should be kept closed when not in use.
- To avoid: Do not store near strong oxidizing agents, heat, or flame.

Incompatible products and materials:

Strong oxidizing agents (peroxides, chlorates, chromic acid, etc.).

Safe container materials

- Recommended: High-density polyethylene (HDPE) and carbon steel with sanitary varnish lining.

8 – EXPOSURE CONTROL AND PERSONAL PROTECTION

Engineering control measures:

Handle the product in an area with good natural or mechanic ventilation so as to keep vapor concentration below the Tolerance Limit.

Control Parameters

- Occupational exposure limits
- Threshold limit value (Brazil, Administrative Rule MTb 3214/78, NR 15 – Annex 11): Not established.
- Threshold limit value (USA, ACGIH):
 - Oil mist: TLV/TWA: 5 mg/m³.
 - TLV/STEL: 10 mg/m³.

Personal Protective Equipment

- Respiratory protection: At low concentrations, use a respirator with a chemical filter for organic vapors. At high concentrations, use a self-contained or remote-air-supply breathing apparatus.

PRODUCT: SINGER LUBRICATING OIL

Page 5 of 6

Date: 10/31/2013 FDS

No.: SdB 001

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10 – STABILITY AND REACTIVITY

Specific conditions

Instability:

Stable at ambient temperature and under normal conditions of use.

Hazardous reactions:

Reacts exothermically in contact with strong oxidizing agents. Heating above 60°C may give rise to product decomposition.

Incompatible materials / substances:

Strong oxidizing agents (peroxides, chlorates, chromic acid, etc.).

Hazardous decomposition products:

Light distillates and [petroleum] coke.

11 – TOXICOLOGICAL INFORMATION

Acute toxicity

- Inhalation:

Acute effects are not expected.

- Skin contact:

Oil mist: LD50 (rabbit) > 5 g/kg (literature).

- Ingestion:

Oil mist: LD50 (rat) > 25 g/kg (literature).

Local effects

- Inhalation:

Mild irritation to respiratory system.

- Skin contact:

Significant or prolonged irritation is not expected.

- Eye contact:

Significant or prolonged irritation is not expected.

- Ingestion:

Acute toxicity by ingestion is not expected. However, if lung aspiration occurs, it may cause local irritation and, in more severe cases, pneumonia of chemical origin.

Chronic Toxicity

- Inhalation:

Respiratory system irritation after repeated product mist inhalation.

- Skin contact:

Susceptible individuals and [sic] dermatitis may have their condition aggravated after repeated contact.

- Eye contact:

Mild eye irritation.

Specific effects

- Carcinogenic:

According to the International Agency for Research on Cancer (IARC), there has been no evidence that this sort of oil is carcinogenic to experimental animals.

Additional information:

The assessment of toxic effects was based on data from similar material.

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Page 6 of 6
Cancels and supersedes version: All previous versions

12 – ECOLOGICAL INFORMATION

Ecotoxicity

- Effects on aquatic organisms: Attention should be given to the possibility of contamination of spring water, which is used for potable water production, as it must be completely free from petroleum-derived products.
- Effects on soil organisms: The product may infiltrate into the soil and reach ground water, originating pollution.

13 – DISPOSAL CONSIDERATIONS

Treatment and disposal methods

- Product: Treatment and disposal of the product should be technically evaluated on a case-by-case basis.
- Residues: Dispose of in facilities approved by environmental authorities.
- Used containers: Dispose of in facilities approved by environmental authorities.

14 – TRANSPORT INFORMATION

National regulations

By land (ANTT, Resolution 420/04 ANTT): Product not classified as hazardous for transport.

15 – REGULATORY INFORMATION

LABELING

Data not available.

16 – ADDITIONAL INFORMATION

Bibliographic references:

Section 14: Regulation for Land Transport of Dangerous Goods of the [Brazilian] Ministry of Transport (ANTT, Resolution No. 420 dated May 31, 2004), and List of Dangerous Goods within the Ambit of Mercosur (Decree 1797 dated January 25, 1996).

Civil Aviation Instruction 153 – REGULATIONS FOR THE TRANSPORT OF DANGEROUS GOODS BY CIVIL AIRCRAFTS of the **Brazilian Department of Civil Aviation [Departamento de Aviação Civil] (DAC) and DOC-9584** – Technical Instructions for the Safe Transport of Dangerous Goods by Air of the International Civil Aviation Organization (ICAO).

Note:

The information and recommendations presented herein have been researched and compiled from reliable sources competent to issue them, being the limits of application the same as those of the respective sources. The information in this material safety data sheet refers to a specific product and may not be valid where this product is used in combination with other products. Users are responsible for any use of the product other than that described on the container/packaging.