

PRODUCT: SINGER INDUSTRIAL 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 Industrial Oil

Internal identification code: 20046-600

Company: SINGER DO BRASIL INDÚSTRIA E COMÉRCIO 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 / Fax Number: (0xx19) 2107-4614 / 2107-4844

Emergency Telephone Number: 0800-707-7022

2 – COMPOSITION AND INFORMATION ON INGREDIENTS

PREPARATION

Chemical Nature: Properly refined petroleum mineral oil of the naphthenic type, composed

of alkanes and cycloalkanes, with lower contents of aromatic

hydrocarbons.

Synonyms: LUB-NH20. CAS Registry Number: 64742-52-5

3 – HAZARD IDENTIFICATION

MAJOR HAZARDS

Physical and chemical hazards: Combustible liquid.

- Specific hazards: Combustible and slightly toxic product.

PRODUCT EFFECTS

- Adverse effects on human health: Slightly toxic.

4 - FIRST-AID MEASURES

Inhalation: If vapors derived from product heating are inhaled, remove the victim to

fresh air. If breathing is difficult, administer oxygen at a given flow rate

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.



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Notes to physician: Product with very low vapor pressure. At ambient temperature, vapor

inhalation is insignificant.

5 – FIREFIGHTING MEASURES

Suitable extinguishing media: Foam for hydrocarbons, water mist, dry chemical (powder), and carbon

dioxide (CO₂).

Specific hazards: Normal combustion produces carbon dioxide (CO₂), 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 Wear boots, cotton overalls, impervious gloves and apron, hermetic

skin, mucous membranes, and eyes: 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.



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7 – HANDLING AND STORAGE

HANDLING

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 in a cool, ventilated place, away from sources of ignition, and at

atmospheric pressure. Prolonged heating at temperatures above 60°C may degrade the product. 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.).

- 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 Not established.

Rule MTb 3214/78, NR 15 – Annex 11):

- 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.



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- Hands protection: PVC gloves in activities involving direct contact with the product.

- Eyes protection: In operations with potential projections or splashes, the use of safety

goggles or face shield is recommended.

- Skin and body protection: Cotton overalls and, if necessary, impervious (PVC, polyethylene, or

neoprene) apron.

Special Precautions: Safety showers and eye wash fountains should be available in product

handling areas. Avoid prolonged or frequent contact with the product.

Hygiene Measures: Clothing and footwear should be cleaned after their use. Industrial

Hygiene general control methods should minimize the exposure to the product. Do not eat, drink, or smoke while handling chemicals. Working

clothes should be separated from ordinary clothes.

9 – PHYSICAL AND CHEMICAL PROPERTIES

Aspect

- Physical state: Clear liquid.

- Color: Transparent, yellowish.

- Odor: Odorless.

pH: Not applicable (indissociable product).

Specific Temperatures

Boiling point: Not applicable.
Melting point: Not applicable.
Flash point: 160°C (open cup).

Combustion point: >180°C.

Flammable (explosive) limits in air: Not applicable (nonflammable product).

 Vapor pressure:
 <5 mmHg @ 20°C.</td>

 Density:
 0.9017 @ 20/4°C.

Solubility

- In water: Insoluble.

- In organic solvents: Miscible in hydrocarbon solvents.

Pour point: -33°C.

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.



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11 – TOXICOLOGICAL INFORMATION

Acute toxicity

Inhalation: Acute toxic effects are not expected.
 Skin contact: LD50 > 2 g/kg (concawe no. 97/108).
 Ingestion: LD50 > 5 g/kg (concawe no. 97/108).

Local effects

- Inhalation: Mild irritation to respiratory system.

Skin contact:
 Eye contact:
 Significant or prolonged irritation is not expected.
 Significant or prolonged irritation is not expected.

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 results of Ames tests of mutagenicity (MI = 0.52),

carcinogenic activity of the product is not expected in experimental

animals.

12 - ECOLOGICAL INFORMATION

Ecotoxicity

- Effects on aquatic organisms: Attention should be given to the possibility of contamination of

watercourses, as their quality must be in accordance with applicable

environmental regulations.

- 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.



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14 - TRANSPORT INFORMATION

National regulations

By land (MT, Administrative Rule 420/2004): Product not classified as hazardous for transport.

15 - REGULATORY INFORMATION

LABELING

Classification as per the NFPA: Fire: 1

> Health: 1 Reactivity: 0

Other: Not available.

EEC regulations: Mandatory labeling (self-classification) of hazardous preparations:

applicable (EEC 265-155-0)

16 – ADDITIONAL INFORMATION

Civil aviation instruction 153 - REGULATIONS FOR THE TRANSPORT Bibliographic references:

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).

Section 14: Regulation for Land Transport of Dangerous Goods of the [Brazilian] National Land Transport Agency (Resolution No. 420 dated May 31, 2004), and List of Dangerous Goods within the Ambit of

Mercosur (Decree 1797 dated January 25, 1996).

above-mentioned Doc-9584 may consulted is informed below:

(http://www.icao.int/icao/en/download.

htm#docs).

Note: The webpage of ICAO where The information and recommendations presented herein have been **be** 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. Petrobras Distribuidora S.A. clarifies that the data collected by the company is transferred without alteration of

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