

MATERIAL SAFETY DATA SHEET

1.- COMPANY IDENTIFICATION

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2.- PRODUCT NAME AND CHEMICAL COMPOSITION INFORMATION

2.1).- Product Name: MEXICANA DE LUBRICANTES CF/CF-2 SAE 30, 40, 50 y 60

2.2).- Chemical Composition:

Paraffinic Base Oils ----- 93.1 - 94.7 %Volume

Zinc Salts of Dialkilditiophosphate,
Borated polyisobutenyl succinic anhydride
based dispersant, calcium and magnesium
detergents ----- 6.6 - 5.1 % Volume

Alkil ester copolymer ----- 0.3 - 0.2 % Volume

Comments: The Base Oils consist of: Distillates, Hydrotreated heavy paraffinic, solvent refined petroleum hydrocarbons.

3.- HAZARDS IDENTIFICATION

Light brown liquid, color 4.0 (ASTM D-1500)

A hazard warning is not required for this product, under OSHA hazard communication standard.

4.- FIRST-AID MEASURES

4.1).- **Skin Contact**: No first aid procedures are required. As precaution, wash skin thoroughly with soap and water . Remove and wash contaminated clothing.

4.2).- **Eye Contact**: No first aid procedures are required. However, as a precaution flush eyes with fresh water for 15 minutes. Remove contact lenses if worn.

4.3).- **Ingestion**: If swallowed, give water or milk to drink and telephone for medical advice. Consult medical personnel before inducing vomiting. If medical advice cannot be obtained , then take the person and the product container to the nearest medical emergency treatment center or hospital.

4.4).- **Inhalation**: Since this material is not expected to be an immediate inhalation problem, no first aid procedures are required.

5.- FIRE-FIGHTING MEASURES

5.1).- **Flammable Properties**:

Flash Point: 215°C (420°F) (COC) ASTM D-92

Autoignition: NDA

Extinguishing Media: CO₂, Dry Chemical, Foam and Water Fog.

5.2).- **NFPA Ratings**: Health 1; Flammability 1; Reactivity 0.

5.3).- **Fire Fighting Instructions**: For fires involving this material, do not enter any enclosed or confined fire space without proper protective equipment, including self-contained breathing apparatus.

5.4).- **Combustion Products**: Normal combustion forms Carbon Dioxide and water vapor and may produce oxides of Nitrogen and Sulfur. Incomplete combustion can produce Carbon Monoxide.

6.- ACCIDENTAL RELEASE MEASURES

6.1).- **Personal Precautions**: Avoid contact with skin, eyes and clothing.

6.2).- Environmental Precautions: Prevent contamination of soil, drains and surface waters.

6.3).- Methods for Cleaning: Take up with absorbent, inert material (e.g. Kieselguhr, sand) and place in suitable and closable container for disposal.

7.- HANDLING AND STORAGE

7.1).- Handling and Storage: Do not weld, heat or drill container. Residue may ignite with explosive violence if heated sufficiently. **CAUTION**: Do not use pressure to empty drum or drum may rupture with explosive force.

8.- EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1).- Technical Protective Measures: No special safety measures required.

8.2).- Exposure Controls Limits: None

8.3).- Respiratory Protection: No special respiratory protection is normally required. If operating conditions result in airborne mists or vapors of this material, the use of an approved respirator is recommended.

8.4).- Eye/Face Protection: No special eye protection is usually required.

8.5).- Hand Protection: Wear suitable gloves.

8.6).- Skin Protection: No special skin protection is usually necessary. Skin contact can be minimized by wearing protective clothing.

9.- PHYSICAL HAND CHEMICAL PROPERTIES

9.1).- Physical Description:

Light brown liquid

Melting point / range: Not Applicable

Boiling point / range: >300°C

Autoflammability: Not tested

Explosive Properties: Not tested

Odor: Characteristic

Density: 0.894 g/cm³ at 20°C

Flash Point: 215°C (COC)

Viscosity: 14.5 / 16.2 mm²/seg (cSt) at 100°C.

10.- STABILITY AND REACTIVITY

10.1).- Hazardous Decomposition Products: None

10.2).- Chemical Stability: Stable at temperatures above 200°C (392°F)

10.3).- Conditions to avoid: Not data available

10.4).- Materials to avoid: Strong acids, strong bases and strong oxidizing agents.

10.5).- Hazardous Decomposition Products: Thermal decomposition or burning may release Oxides of Carbon, Sulfur and Nitrogen.

11.- TOXICOLOGICAL INFORMATION

11.1).- Eye Effects: No product toxicology data available. The hazard evaluation was based on data on the components.

11.2).- Skin Effects: No product toxicology data available. The hazard

evaluation was based on data on the components.

11.3).- Acute Oral Effects: No product toxicology data available. The hazard evaluation was based on data on the components.

11.4).- Acute Inhalation Effects: No product toxicology data available. The hazard evaluation was based on data on the components.

11.5).- Additional Toxicology Information: This product contains petroleum base oils which are refined by various processes including severe solvent extraction, and severe hydrotreating. None of the oils requires a cancer warning under the OSHA Hazard Communication Standard (29 CFR 1910.1200). These oils have not been listed in the National Toxicology Program (NTP) Annual Report, nor have they been classified by the International Agency for Research on Cancer (IARC) as; carcinogenic to humans (Group 1), probably carcinogenic to humans (Group 2A), or possibly carcinogenic to humans (Group 2B).

12.- ECOLOGICAL INFORMATION

12.1).- Ecotoxicity: This material is not expected to present any environmental problems other than those associated with oil spills.

12.2).- Environmental Fate: No data available.

13.- DISPOSAL CONSIDERATIONS

13.1).- **Disposal Considerations**: Place contaminated materials in disposable containers and dispose of in a manner consistent with applicable regulations. Contact local environmental or health authorities for approved disposal of this material.

14.- TRANSPORT INFORMATION

14.1).- **DOT Shipping Name**: Not designated as a hazardous material by the Federal DOT.

14.2).- **DOT Hazard Class**: Not applicable.

14.3).- **DOT Identification Number**: Not applicable.

14.4).- **DOT Packaging Group**: Not applicable.

The description shown may not apply to all shipping situations. Consult 49CFR, or appropriate regulations, for additional description requirements.

15.- REGULATORY INFORMATION

SARA 311 Categories:

15.1).- **Immediate (Acute) Health Effects**: No

15.2).- **Delayed (Chronic) Health Effects**: No

15.3).- **Fire Hazard**: No

15.4).- **Sudden Release of Pressure Hazard**: No

15.5).- **Reactivity Hazard**: No

15.6).- **WHIMS CLASSIFICATION**: This product is not considered a controlled product according to the criteria of the Canadian Controlled Products Regulations.

16.- OTHER INFORMATION

16.1).- NFPA Ratings: Health 1; Flammability 1; Reactivity 0; (Least-0, Slight-1, Moderate-2, High-3, Extreme-4). These values are obtained using the guidelines or published evaluations prepared by the National Fire Protection Association (NFPA) or the National Paint and Coating Association.

16.2)- Changes have been made throughout this Material Safety Data Sheet and revises this MSDS to comply with the ANSI Z400.1 Standard.

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