AKRON® CUSTOM CI-4 SAE 20W-50
MATERIAL SAFETY DATA SHEET

Date of issue: 11 july 2014

AKRON® YOUR WORLD IN MOTION

1.- Product and company identification

1.1.- Chemical names: Lubricant Oil.
Product name: Akron Custom CI-4 SAE 20W-50.
Chemical family: N.D.
Synonyms: Multigrade Motor Oil.
Use: Diesel Engine Oil for 2004 and older models.

1.2.- Supplier:
Mexicana de Lubricantes S.A. de C.V.
Avenida 8 de Julio N° 2270 Z.I.
Guadalajara, Jalisco, México.
Zip Code: 44940
Phone: +52(33) 3134 0576 / 3134 0500
Emergency Phone: +52(33) 31340579
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2.- Hazards identification

2.1.- NFPA Hazard ID: Health 1; Flammability 1; Reactivity 0.

2.2.- Under normal conditions of use, this product is not considered hazardous.

2.3.- Chemical Hazard Pictogram:

GHS02

2.4.- Potential health effects: Under normal conditions of intended use, this product does not pose a risk to health. Excessive exposure may result in eye, skin or respiratory irritation.

3.- Composition / Information on ingredients

3.1.- Chemical Composition:

Components	% wt	CAS Number
Paraffinic Base Oils	77.00 - 82.00	64742-65-0
Additives	18.0 -- 23.0	Mix

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

Zinc Dialkyldithiophosphate CAS Number: 68649-42-3 Concentration: < 1.5%

4.- First-aid measures

4.1.- Skin Contact: No first aid procedures are required. As precaution, wash contact areas 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. If irritation occurs, get medical assistance.

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 requiered.

5.- Fire-fighting measures

5.1.- Flammable Properties:
Flash Point: 235°C (455°F) (COC) ASTM D-92.
Autoignition: N.D.
Extinguishing Media: Carbon Dioxide, Dry Chemical, Foam and Water Fog.
Inappropiate Extinguishing Media: Straight streams of water.

5.2.- NFPA Hazard ID: 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 material from entering sewers, water sources or low lying areas; advise the relevant authorities if it has, or if it contaminates soil/vegetation.

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.

Prevent small spills and leakage to avoid slip hazard.

Static Accumulator: This material is a static accumulator.

8.- Exposure controls / Personal protection

8.1.- Technical Protective Measures: No special safety measures required under ordinary conditions of use.

8.2.- Occupational exposure limits: When mists/aerosols can occur, the following are recommended: 5 mg/m^3 (as oil mist).

- ACGIH Threshold Limit Value (TLV), 10 mg/m^3 (as oil mist).

- ACGIH Short Term Exposure Limit (STEL), 5 mg/m^3 (as oil mist) – OSHA Permissible Exposure Limit (PEL).

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: If contact is likely, safety glasses with side shields are recommended.

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.- Boiling Point °C: > 300
9.2.- Melting Point °C: N.A.
9.3.- Flash Point °C: 235 (COC).
9.4.- Auto Flammability °C: N.A.
9.5.- Density, 15/4°C: 0.890
9.6.- pH: N.A.
9.7.- Molecular Weight: N.A.
9.8.- Appearance: Liquid.
9.9.- Color: Brown.
9.10.-Odor: Mild.
9.11.-Evaporation Rate: N.E.
9.12.-Solubility in Water: Negligible.
9.13.-Vapor Pressure mmHg @ 20°C: < 0.1
9.14.-Volatile Organic Compound: N.E.
9.15.-Explosive Properties: N.A.
9.16.-Other properties:
Kinematic Viscosity @ 100 C, cSt: 19.5
Pour Point, °C: -12

10.- Stability and reactivity

10.1.- Hazardous Decomposition Products: None at ambient temperatures.

10.2.- Chemical Stability: Stable at temperatures above 235°C (455°F).

10.3.- Conditions to avoid: Excessive heat. High energy sources of ignition.

10.4.- Materials to avoid: Strong oxidizers.

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: Toxicity (Rat) LC_{50} > 2000 mg/kg The hazard evaluation was based on test data for structurally similar.

11.4.- Acute Inhalation Effects: Toxicity (Rat) LC_{50} > 2000 mg/m^3 The hazard evaluation was based on test data for structurally similar.

11.5.- Additional Toxicology Information: This product contains petroleum base oils which are refined by various processes incluiding 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.

12.3.- Persistence and degradability:
Biodegradation:
Base Oil component – Expected to be inhearently Biodegradable.

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 appropiate regulations, for additional description requirements.

15.- Regulatory information

SARA (311/312) Categories:

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

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

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

15.4.- NOM-018-STPS-2000 "Sistema para la identificación y comunicación de peligros y riesgos por sustancias químicas peligrosas en los centros de trabajo"."

15.5.- NOM-010-STPS-1999 "Condiciones de seguridad e higiene en los centros de trabajo donde se manejen, transporten, procesen o almacenen sustancias químicas capaces de generar contaminación en el medio ambiente laboral".

15.6.- NOM-004-SCT-2008 "Sistema de identificación de unidades destinadas al transporte de sustancias, materiales y residuos peligrosos".

15.7.- Akron Specification 14.30 Akron Custom CI-4 SAE 20W-50.

15.8.- NIOSH "Pocket Guide to Chemical Hazards".

15.9.- NFPA 325 "Guide to Fire Hazard Properties of flammable liquids, gases and volatile solids".

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

16.- Other information

Health
Flammability
Reactivity
Risk

0 Least
1 Slight
2 Moderate
3 High
4 Extreme

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For further information about this product, please contact the technical department of your local distributor or directly, Mexicana de Lubricantes, S.A. de C.V.