

MATERIAL SAFETY DATA SHEET

SECTION 1 IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Mopec
800 Tech Row
Madison Heights, MI 48071

SUBSTANCE:

SYNTHETIC ULTRA-LOW-TEMPERATURE

LUBRICATING GREASE (SOLID)

TRADE NAMES/SYNONYMS: HYALINE

PRODUCT USE: Synthetic lubricating grease

CREATION DATE: 11/15/2014

REVISION DATE: 09/15/2016

SECTION 2 HAZARDS IDENTIFICATION

Most important symptoms/effects, acute and delayed

Potential acute health effects

Eye contact: Causes serious eye damage.

Skin contact: Causes skin irritation. May cause an allergic skin reaction.

Inhalation: No known significant effects or critical hazards.

Ingestion: No known significant effects or critical hazards.

Over-exposure signs/symptoms

Skin contact: Adverse symptoms may include the following:
pain or irritation
redness
blistering may occur

Eye contact: Adverse symptoms may include the following:
pain
watering
redness

Ingestion: Adverse symptoms may include the following:
stomach pains

Inhalation No known significant effects or critical hazards.

HAZARDOUS MATERIAL IDENTIFICATION SYSTEM (HMIS):

Health – 1 Flammability – 1 Reactivity – 0

Not a Controlled Product under (WHMIS) – Canada

Special Protection: See Section 8

SECTION 3 COMPOSITION/INFORMATION ON INGREDIENTS

Substance/mixture: Mixture

Other means of identification: Not available

Ingredient name	%	CAS number
Dec-1-ene, homopolymer, hydrogenated Dec-1-ene, oligomers, hydrogenated	60 - 80	68037-01-4
Benzene, mono-C10-13-alkyl derivs., fractionation bottoms, heavy ends, sulfonated, calcium salts	25 - 40	148520-84-7
Hydrogenated Base Oil (8042-47-5)	10 - 15	8042-47-5
Diboron calcium tetraoxide	1 - 5	13701-64-9
Calcium Dodecylbenzenesulphonate	1 - 5	26264-06-2

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

SECTION 4 FIRST AID MEASURES

INHALATION: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. Maintain an open airway. Get medical attention if symptoms occur.

SKIN CONTACT: Get medical attention immediately. Call a poison center or physician. Wash with plenty of soap and water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 20 minutes. Chemical burns must be treated promptly by a physician. In the event of any complaints or symptoms, avoid further exposure. Wash clothing before reuse. Clean shoes thoroughly before reuse.

EYE CONTACT: Get medical attention immediately. Call a poison center or physician. Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 20 minutes. Chemical burns must be treated promptly by a physician.

INGESTION: Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Never give anything by mouth to an unconscious person. Get medical attention if symptoms occur.

SECTION 5 FIRE FIGHTING MEASURES

Extinguishing media

Suitable extinguishing media:

Use an extinguishing agent suitable for the surrounding fire.

Unsuitable extinguishing media:

None known.

Specific hazards arising from the chemical:

No specific fire or explosion hazard.

Hazardous thermal decomposition products:

Decomposition products may include the following materials:

carbon dioxide

carbon monoxide

sulfur oxides

metal oxide/oxides

Special protective actions for fire-fighters:

No special protection is required.

Special protective equipment for fire-fighters:

Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode

SECTION 6 ACCIDENTAL RELEASE MEASURES

OCCUPATIONAL RELEASE: Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Do not breathe vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations. Dispose via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product.

SECTION 7 HANDLING AND STORAGE

STORAGE: Put on appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest. If during normal use the material presents a respiratory hazard, use only with adequate ventilation or wear appropriate respirator. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Avoid contact with used product. Do not reuse container.

Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. See also Section 8 for additional information on hygiene measures.

Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

EXPOSURE LIMITS:

Under conditions which may generate mists, the following additional exposure limits are recommended:

ACGIH TLV TWA: 5 mg/m³; STEL: 10 mg/m³.

Ingredient name: Hydrogenated Base Oil (8042-47-5)

ACGIH TLV (United States, 3/2015).

TWA: 5 mg/m³ 8 hours. Form: Inhalable fraction

NIOSH REL (United States, 10/2013).

TWA: 5 mg/m³ 10 hours. Form: Mist

STEL: 10 mg/m³ 15 minutes. Form: Mist

OSHA PEL (United States, 2/2013).

TWA: 5 mg/m³ 8 hours.

VENTILATION: Provide local exhaust ventilation system. Ensure compliance with applicable exposure limits.

EYE PROTECTION: Wear splash resistant safety goggles. Provide an emergency eye wash fountain and quick drench shower in the immediate work area.

CLOTHING: Wear appropriate chemical resistant clothing.

GLOVES: Wear appropriate chemical resistant (nitrile) gloves.

RESPIRATOR: Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE: Solid (grease)

APPEARANCE: Grease

COLOUR: Tan

PHYSICAL FORM: Grease

ODOR: Mild. Petroleum.

BOILING POINT: Not available.

FREEZING POINT: Not available

FLAMMABILITY (solid, gas): Flammable in the presence of the following materials or conditions: open flames, sparks and static discharge.

FLASH POINT: Not available.

LOWER FLAMMABLE LIMIT: Not available.

UPPER FLAMMABLE LIMIT: Not available.

AUTO IGNITION: Not available.

VAPOUR PRESSURE: Not available.

VAPOR DENSITY (air=1): Not available.

DENSITY: 1 g/cm³

WATER SOLUBILITY: negligible

pH: Not available.

VOLATILITY: Not available.

ODOR THRESHOLD: Not available.

EVAPORATION RATE: Not available.

VISCOSITY: Not available.

COEFFICIENT OF WATER/OIL DISTRIBUTION: Not available.

SECTION 10 STABILITY AND REACTIVITY

REACTIVITY: Stable at normal temperatures and pressures

CONDITIONS TO AVOID: No specific data.

INCOMPATIBLES: Reactive or incompatible with the following materials: oxidizing materials.

HAZARDOUS DECOMPOSITION:

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11 TOXICOLOGICAL INFORMATION

Hydrogenated Base Oil (8042-47-5):

TOXICITY DATA:

Greater than 5,000 mg/kg LD50 oral-rat

Calcium Dodecylbenzenesulphonate:

TOXICITY DATA:

Greater than 1,300 mg/kg LD50 oral-rat

SECTION 12 ECOLOGICAL INFORMATION

Not available

SECTION 13 DISPOSAL CONSIDERATIONS

Dispose in accordance with all applicable regulations

SECTION 14 TRANSPORT INFORMATION

LAND TRANSPORT ADR: No classification assigned.

LAND TRANSPORT RID: No classification assigned.

AIR TRANSPORT IATA: No classification assigned.

AIR TRANSPORT ICAO: No classification assigned.

MARITIME TRANSPORT IMDG: No classification assigned.

SECTION 15 REGULATORY INFORMATION

EUROPEAN REGULATIONS:

EC CLASSIFICATION (CALCULATED): Not classified as dangerous.

SECTION 16 OTHER INFORMATION

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