

ENOC LUBRICANTS

Version no.: New

Authorization date: 16/08/2010

Product Name: EN MOULD GBO

Product Code: 281001

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MATERIAL SAFETY DATA SHEET

SECTION 1

PRODUCT AND COMPANY IDENTIFICATION

PRODUCT

Product Name: ENOC EN MOULD GBO
Product Description: Base Oil and Additives
Product Code: 281001
Intended Use: Concrete Mould Release Oil

COMPANY IDENTIFICATION

Supplier: ENOC International Sales LLC
ENOC Complex – Building no. 1
Sheikh Rashid Road
P.O. Box 6442 - Dubai
United Arab Emirates

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Composition / information on ingredients

| components | CAS No. | Wt % |
|--|----------------------|---------|
| Hydrotreated C25 Solvent and bright-stock based lubricating oils | 64742650 64742627 | 90 ~ 95 |
| Oleic Acid | Not Available | 2.5 |
| Barium sulfonate | 61790485 | 1.0 |
| Additives | Not Available | >1 |

Hazard identifications: NO SIGNIFICANT HAZARD.

Eyes: May cause eye irritation characterized by tearing, pain, redness, blurred vision, and/or swelling.

Oral: May cause irritation of the digestive tract which may result in nausea, vomiting and

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diarrhea.

Inhalation:

Breathing the vapor or mist at concentrations in air that exceed the ACGIH TLV, or in unusually high concentrations, as from exposure in poorly ventilated areas or confined spaces, may be irritating to the nose, throat and respiratory tract. Other symptoms of overexposure may include headache, nausea, dizziness and/or drowsiness.

Skin:

May cause skin irritation.

Prolonged or frequently repeated contact may cause more severe irritation or may cause the skin to become cracked or dry from the defatting action of this material.

May cause oil acne following prolonged or repeated contact.

Long term toxic effects:

The base oil component(s) are not expected to be carcinogenic based on IARC criteria. This product has not been tested as a whole for chronic health effects.

See Section 11 for additional information.

Eyes:

Flush eyes immediately with fresh water for at least 15 minutes while holding the eyelids open.

If irritation persists, see a doctor.

Skin:

Remove and launder contaminated clothing, including shoes. Wash skin thoroughly with soap and water. See a doctor if any signs or symptoms described in this MSDS occur.

Ingestion:

If swallowed and person is conscious, give water or milk. DO NOT make person vomit except on advice of medical personnel. If advice cannot be obtained, take person with container and label to nearest emergency treatment center. Never give anything by mouth to an unconscious person.

Inhalation:

If respiratory irritation or any signs or symptoms as described in this MSDS occur, move the person to fresh air. If any of these effects continue, see a doctor.

Advice to doctor:

None Applicable.

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Ignition temp. (degrees c): Not Determined

Flammable limits (% by volume): Not Determined

Fire extinguishing agents: According to the U.S. National Fire Protection Association Guide, use water fog, dry chemical, foam, or carbon dioxide. Water or foam may cause frothing. Use water to cool fire-exposed containers. If a leak or spill has not ignited, use water spray to disperse the vapors and to provide protection for persons attempting to stop the leak.

Explosion hazards: For fires involving this material, do not enter any enclosed or confined space without self-contained breathing apparatus to protect against the hazardous effects of combustion products or oxygen deficiency.

In case of spill: Stop the source of the leak or release and contain spill if possible. Ventilate area. Use respirator and protective clothing as discussed in this MSDS. Cover spill with a generous amount of inert absorbent. Use a stiff broom to mix thoroughly. Sweep up and place in a disposable container. Scrub contaminated area with detergent and water using a stiff broom. Pick up liquid with additional absorbent and place in a disposable container. Prevent contamination of groundwater or surface water.

Minimum feasible handling temperatures should be maintained. Periods of exposure to high temperatures should be minimized. Water contamination should be avoided.

Empty containers retain residue (liquid and/or vapor) and can be dangerous. DO NOT PRESSURIZE, CUT, WELD, BRAZE, SOLDER, DRILL, GRIND OR EXPOSE SUCH CONTAINERS TO HEAT, FLAME, SPARKS, STATIC ELECTRICITY, OR OTHER SOURCES OF IGNITION: THEY MAY EXPLODE AND CAUSE INJURY OR DEATH. Do not attempt to clean since residue is difficult to remove. Empty drums should be completely drained, properly bunged and promptly returned to a drum reconditioned. All other containers should be disposed of in an environmentally safe manner and in accordance with governmental regulations.

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| | |
|-------------------------|---|
| Eyes: | Safety glasses, chemical type goggles, or face shield appropriate where splashing or misting is expected during routine operations or spill clean-up. |
| Skin: | Avoid contact with skin or street clothing. Skin contact can be minimized by wearing protective clothing including coveralls, gloves, and boots. Gloves and boots should be resistant to chemicals and petroleum distillates. |
| Ventilation: | No special ventilation is usually necessary. However, if operating conditions create high airborne concentrations of this material, engineering controls may be needed. Local exhaust ventilation and/or enclosure of the process are preferred in these cases. |
| Exposure limits: | The ACGIH TLV for mineral oil mists is 5 mg/m ³ for a daily 8-hour exposure. A short term exposure limit (STEL) of 10 mg/m ³ is recommended. |

Note: The following data may represent a range of approximate or typical values for products in the same family. Precise technical information is provided in Product Bulletins and can be obtained from your Marketing Representative.

| | |
|--------------------------------------|---|
| Appearance & odor: | Pale liquid; petroleum odor ; Color L 5.0 |
| Boiling point (deg. c): | Not Determined |
| Vapor pr. (mmhg @ 25 deg. c): | Not Determined |
| Density (kg/l at 15 deg. c): | 0.895 |
| Vapor density (air = 1): | Not Determined |
| Total Acid Number (KOH/gm) | 4.91 |
| Solubility (water): | Negligible |
| Percent volatile by volume: | Not Determined |
| Evaporation: | Not Determined |
| Viscosity (cSt): | 292 @ 40°C and 22.7 @ 100 °C |

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Hazardous polymerizations:

DO NOT OCCUR

Products of combustion:

Carbon monoxide, carbon dioxide, and aldehydes and ketones may be formed.

Conditions to avoid:

Heat, Strong Oxidizers

General:

This product contains petroleum base oils which may be refined by various processes including severe solvent extraction, hydrocracking and hydrotreating. These oils have not been listed in the U.S. National Toxicology Program (NTP) Annual Report nor have they been classified by the International Agency for Research on Cancer (IARC) as carcinogenic or probably carcinogenic to humans.

Some low viscosity naphthenic oils have caused skin irritation and skin tumors in laboratory animals when repeatedly applied and left in place between applications. The significance of this effect to humans has not been established. Brief or intermittent contact is not expected to cause adverse effects if it is washed thoroughly. Avoid prolonged or repeated skin contact.

Environmental effects:

No specific ecotoxicity data on this product are available.

This product or a component(s) is expected to be resistant to biodegradation.

This product is expected to have low aquatic toxicity (LD50 > 1000 mg/l) and is not considered to represent a long-term danger to the aquatic environment.

Waste disposal:

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.

Remarks:

This material may present environmental risks common to oil spills. Contact your local oil spill response group and applicable government agencies if a spill occurs.

Transport of dangerous

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goods:

UN Number: Not Applicable

Dangerous Goods Class: Not Applicable

Proper Shipping Name: Not Applicable

**Hazchem Code
(Australia/NZ):** Not Applicable

Respirator information: Where local approval authority is absent, respirator users can refer to U.S. NIOSH, European Standard EU-149, or joint Australia-New Zealand AS/NZS 1715/1716 for guidance.

Respirator users in Australia and New Zealand should comply with AS/NZS 1715/1716.

No specific notes on this product.

The information and recommendations contained herein are, to the best of ENOC International Sales LLC (EISL) knowledge and belief, accurate and reliable as of the date issued. You can contact EISL to insure that this document is the most current available from ENOC International Sales LLC. The information and recommendations are offered for the user's consideration and examination. It is the user's responsibility to satisfy itself that the product is suitable for the intended use. If buyer repackages this product, it is the user's responsibility to insure proper health, safety and other necessary information is included with and/or on the container. Appropriate warnings and safe-handling procedures should be provided to handlers and users.

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