

ARTICLE 1 PRODUCT AND COMPANY IDENTIFICATION

Product: Ebonite H-240
General Uses: Process oil, Chemical carrier, Wetting agent
Product Description: Black liquid, Hydrocarbon odor

Cross Oil Refining & Marketing, Inc.	Emergency:	ChemTrec 800-424-9300
484 East 6 th Street	Information:	870-881-8700
Smackover, AR 71762	Fax:	870-864-8656
USA		www.crossoil.com

ARTICLE 2 HAZARD IDENTIFICATION

WARNING:

- Black liquid.
- Mild hydrocarbon odor.
- Can burn in a fire.

	NPCA-HMIS	KEY
HEALTH:	1	0 = Minimal
FIRE:	1	1 = Slight
REACTIVITY:	0	2 = Moderate
SPECIFIC HAZARD:	N/A	3 = Serious
PROTECTION INDEX:	B	4 = Severe

Precautionary Labels: NONE REQUIRED

INHALATION: Will not produce vapors unless heated to temperatures of ~300 °F.

EYE CONTACT: Irritating, but will not permanently injure eye tissue.

SKIN CONTACT: Prolonged or repeated contact may cause skin irritation.

INGESTION: Small amounts (tablespoonful) swallowed are not likely to cause injury. Larger amounts may cause nausea and vomiting.

CHRONIC (CANCER) INFORMATION: IARC Monographs state that when laboratory animals are exposed to severely hydro-treated oils, such as these product(s). There is **insufficient evidence** for cancer. Thus, these oils are **Unlabeled** in accordance with 29 CFR 1910.1200. Consult a physician promptly.

ARTICLE 3 COMPOSITION / INFORMATION ON INGREDIENTS

COMMON NAME: Black oil
CHEMICAL FAMILY: Petroleum hydrocarbon
HAZARDOUS INGREDIENTS: None known

INGREDIENTS	CAS #	% Vol	ACGIH TLV	OSHA PELS	NIOSH STEL	Hazard Class *	Risk Phrase *
Naphthenic oil, heavy	64742-52-5	50–60	5 mg/m ³ oil mist	5 mg/m ³ oil mist	5 mg/m ³ oil mist	N/A	N/A
Residium	8052-42-4	40–50	5 mg/m ³ oil mist	-	5 mg/m ³ oil mist	N/A	N/A

* Hazard Class & Risk Phrase: These columns are only completed for ingredients which are classified as hazardous under EU Directive (67/548/EEC, as amended) and are present in sufficient concentration to make the overall substance hazardous. In all other situations, the column will be completed as "Not Applicable".

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

ABBREVIATIONS:

NE: None Established NA: Not Applicable (1): NIOSH Guidelines (2) "Manufacturer Recommendation" Short Term Exposure Limit ND: Not Determined

ARTICLE 4 FIRST AID MEASURES

EYE CONTACT: Flush eyes with plenty of water for several minutes. Get medical attention if eye irritation persists.

SKIN: Wash skin with plenty of soap and water for several minutes. Get medical attention of skin irritation develops or persists.

INGESTION: If more than several mouthfuls have been swallowed, give two glasses of water (16 Oz.). **Get medical attention.**

INHALATION: If irritation. Headache, nausea or drowsiness occurs, remove to fresh air. Get medical attention if breathing becomes difficult or symptoms persist.

ARTICLE 5 FIRE FIGHTING MEASURES

Flash Point: °C (Method) See Section 9

Ignition Temp.: °C Not determined

Flammability Limit (%) Not determined

RECOMMENDED FIRE EXTINGUISHING AGENTS AND SPECIAL PROCEDURES

- According to NFPA Guide; use water spray, 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.

UNUSUAL OR EXPLOSIVE HAZARDS: None

ARTICLE 6 ACCIDENTAL RELEASE MEASURES

- Notify the appropriate authorities immediately.
- Contain spill. If possible.
- Avoid breathing vapor.
- Use self- contained breathing apparatus or supplied air for large spills or in confined areas.
- Wipe up or use suitable absorbent material and shovel into appropriate container for disposal.
- Prevent entry into sewers or waterways.
- Avoid contact with skin, eyes or clothing.

ARTICLE 7 HANDLING AND STORAGE

PRECAUTIONS:

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

ARTICLE 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

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PROTECTIVE EQUIPMENT

EYE / FACE PROTECTION: Chemical-type goggles or face shield recommended to prevent eye exposure.

SKIN PROTECTION: Workers should wash exposed skin several times daily with soap and water. Soiled clothing should be laundered or dry-cleaned at least weekly.

RESPIRATORY PROTECTION: Airborne concentrations should be kept to lowest levels. If vapor is generated, use respirator approved by OSHA or NIOSH as appropriate. Supplied air respiratory protection should be used for cleaning large spills or upon entry into tanks, vessels, or other confined spaces. See Exposure Limit below.

VENTILATION: Must be adequate to meet exposure limits below.

EXPOSURE LIMIT (TOTAL PRODUCT) 5 mg/m³ for mineral oil mist over an 8 hour daily exposure (ACGIH).

ARTICLE 9 PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: Black liquid, mineral odor

FREEZING POINT: Not applicable

% VOLATILES: Essentially zero @ 24 °C

VAPOR DENSITY (Air =1): 1+

pH: Not available

SOLUBILITY IN WATER: Insoluble

PHYSICAL PROPERTIES:

<u>GRADE</u>	<u>VISCOSITY, cSt @ 100°C</u>	<u>FLASH. °C (COC)</u>	<u>SPECIFIC GRAVITY</u>	<u>VOC. % Wt. ASTM D-972</u>	<u>Vapor Pressure torr à 24 °C</u>	<u>BOILING POINT. °C</u>
H-240	49.18	246.0	0.9563	Not applicable	Not applicable	> 316

ARTICLE 10 STABILITY AND REACTIVITY

- This material reacts violently with strong oxidizers.
- Evolves toxic levels of carbon monoxide, carbon dioxide, irritating aldehydes and keytones when heated to combustion.
- Hazardous polymerization does not occur.

ARTICLE 11 TOXICOLOGICAL INFORMATION

Oral Toxicity: Not determined

Dermal Toxicity: Not determined

Inhalation Toxicity: Not determined

Dermal Sensitization: Not determined

Chronic Toxicity: Not determined

Carcinogenicity: Not determined.

Mutagenicity: Not determined

Reproductive Toxicity: Not determined

Teratogenicity: Not determined

Other: Not applicable

ARTICLE 12 ECOLOGICAL INFORMATION

- If applied to leaves, this product may kill grasses and small plants by interfering with transpiration and respiration. This product is not toxic to fish but may coat gill structures resulting in suffocation if spilled in shallow, running water. Product may be moderately toxic to amphibians by preventing dermal respiration. This product may cause gastrointestinal distress in birds and mammals through ingestion.
- This product is rapidly biodegradable. Biodegradation is possible with 100 to 120 days in aerobic environments at temperatures above 70F (21C).
- A film or sheen will cause discoloration of the water surface or adjoining shoreline.

ARTICLE 13 DISPOSAL

This product has been evaluated for RCRA characteristics and *does not* meet the criteria of a hazardous waste if discarded in its purchased form. Under RCRA it is the responsibility of the user of the product to determine at the time of disposal, whether the product meets RCRA criteria for hazardous waste. This product is subject in service to chemical alteration, which may render the resulting material hazardous.

ARTICLE 14 TRANSPORT INFORMATION INFORMATIONS

TRANSPORTATION, STORAGE < 100°C	Bulk Shipping	Non-Bulk Shipping	Identification No.	Hazard Class
US DOT	Not required	Not required	Not required	Not required
Canadian TDG	Not required	Not required	Not required	Not required
European	Not required	Not required	Not required	Not required
IMDG	Not required	Not required	Not required	Not required
IATA - DGR	Not required	Not required	Not required	Not required

DOT, ADR, IMDG, IATA-DGR Not classified as hazardous goods for land, sea and air transport if temperature does not exceed 100°C.

Other: See 49 CFR for additional requirements for descriptions, allowed modes of transport, and packaging. For more information concerning spills during transport, consult latest DOT Emergency Response Guidebook for Hazardous Materials Incidents, DOT P 5800.3.

ELEVATED > 100°C TEMPERATURE	Bulk Shipping	Non-Bulk Shipping	Identification No.	Hazard Class
US DOT	UN 3257	UN 3257	PG III	9
Canadian TDG	UN 3257	UN 3257	PG III	9
European	UN 3257	UN 3257	PG III	9
IMDG	UN 3257	UN 3257	PG III	9
IATA - DGR	Not determined	Not determined	Not determined	Not determined

DOT, ADR, IMDG, IATA-DGR Classified as hazardous goods for land, sea and forbidden for air transport if temperature exceeds 100°C.

ARTICLE 15 REGULATORY INFORMATION

North America Regulatory Information

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Clean Water Act/Oil Pollution Act: Under Section 311 of the Clean Water Act (40 CFR 110) and the Oil Pollution Control Act of 1990, this material is considered an oil. Any spills or discharges that produce a visible sheen or film on surface of water, or in waterways, ditches, or sewers leading to surface water must be reported. Contact the National Response Center at 800-424-8802.

TSCA: All components of this material are listed in the US TSCA Inventory.

OSHA: IARC Monographs state that when laboratory animals are exposed to severely hydro-treated oils, such as these product(s), there is **insufficient evidence** for cancer. These oils are **Unlabeled** in accordance with 29 CFR 1910.1200.

SARA TITLE III
Section 302/304: Extremely Hazardous Substance : None
Section 313: Toxic Chemicals : None

CERCLA: Section 102(a) Hazardous Substance – Not reportable Not reportable quantity

CALIFORNIA PROPOSITION #65 Not listed

CANADIAN DOMESTIC SUBSTANCES LIST: All components of this material are listed.

European Regulatory Information

EUROPEAN STANDARD TEST METHOD IP-346: Pass

EUROPEAN REGULATORY INFORMATION: This product is listed on the European Inventory of Existing Commercial Substances.

This product has been classified in accordance with the Dangerous Substances Directive (67/548/EEC, as amended). Implemented in the UK as the Chemical (Hazard Information and Packaging) Regulations 1994 (CHIP, as amended).

Classified as Dangerous to Supply: No

Risk Phrases: Not applicable.

Safety Phrases: Not applicable.

Symbols: None

Asian Regulatory Information

JAPAN ENCS: This product is listed on Japan's Existing and New Chemical Substances List.

CHINA: This product is listed on the China (IECSC). Inventory of Existing Chemical Substances Manufactured or Imported in China.

ARTICLE 16 OTHER INFORMATION

Glossary:

ACGIH – American Conference of Governmental Industrial Hygienists; **ANSI** – American National Standards Institute; **Canadian TDG** – Canadian Transportation of Dangerous Goods; **CAS** – Chemical Abstract Service; **Chemtrec** – Chemical Transportation Emergency Center (US); **CHIP** – Chemical Hazard Information and Packaging; **DSL** – Domestic Substances List; **EC** – Equivalent Concentration; **EH40 (UK)** – HSE Guidance Note EH40 Occupational Exposure Limits; **EPCRA** – Emergency Planning and Community Right-To-Know Act; **HMIS** – Hazardous Material Information Service; **LC** – Lethal Concentration; **LD** – Lethal Dose; **NFPA** – National Fire Protection Association; **OEL** – Occupational Exposure Limits; **OSHA** – Occupational Safety and Health Administration, US Department of Labor; **PEL** – Permissible Exposure Limit; **SARA (Title III)** – Superfund Amendments and Reauthorization Act; **SARA 313** – Superfund Amendments and Reauthorization Act, Section 313; **SCBA** – Self-Contained Breathing Apparatus; **STEL** –

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Short Term Exposure Limit; **TLV** – Threshold Limit Value; **TSCA** – Toxic Substances Control Act Public Law 94-469; **TWA** – Time Weighted Value; **US DOT** – US Department of Transportation; **WHMIS** – Workplace Hazardous Materials Information System.

This product may be formulated in part with components purchased from other companies. In many instances, especially when proprietary or trade secret materials are used, Cross Oil Refining & Marketing, Inc. must rely upon information provided by the material manufacturers or distributors.

Prepared by: David Collins
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Safety Data Sheet conforms to ANSI Z400.1-2004 Standard - United States and the EU Safety Data Sheet Directive 91/155/EEC.

Information provided in this Safety Data Sheet is considered accurate and reliable based on information issued from internal and outside sources to the best of Cross Oil Refining & Marketing, Inc.'s knowledge; however, Cross Oil Refining & Marketing, Inc. makes no representations, guarantees or warranties, expressed or implied, of merchantability or fitness for the particular purpose, regarding the accuracy of such information or the result to be obtained from the use thereof or as to the sufficiency of information herein presented. Cross Oil Refining & Marketing, Inc., assumes no responsibility for injury to recipient or to third persons or for any damage to any property and recipient assumes all such risks.