

Material Safety Data Sheet



B-Series

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Revised: 7/31/08
MSDS #: bseries

1. PRODUCT AND COMPANY IDENTIFICATION

Product Identifier: B- SERIES, 40/2400
General Uses: Process oil, Chemical Carrier, Lubricant.
Product Description: Amber Liquid, Hydrocarbon Odor.

MANUFACTURER:

Cross Oil Refining & Marketing, Inc.
484 East Sixth Street
Smackover, Arkansas 71762
MSDS prepared by: Clark B. Smith

EMERGENCY TELEPHONE NUMBERS

(870) 881-8700, Ext. 1163 [1163]

(870) 881-8700, Ext. 1128

2. COMPOSITION INFORMATION

CHEMICAL FAMILY: Petroleum Hydrocarbon	Common Name: Naphthenic Oil	<u>% Vol.</u>
HAZARDOUS INGREDIENTS: None Known	Exposure Limits (Oil Mist):	100%
CAS #:		<u>TWA</u>
Grades Below 100	64742-53-6	ACGIH, TLV (ppm), 5
Grades Above 100	64742-52-5	OSHA, PELS (ppm) 5
		NIOSH, TWA (ppm) 5

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW:

Clear light to dark amber liquid. Mild hydrocarbon odor. Can burn in a fire.

POTENTIAL HEALTH EFFECTS:

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

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 if 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.

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5. FIRE FIGHTING MEASURES

Flash Point, °F (Method)	See Section 9
Ignition Temp. °F	Not Determined
Flammability Limits (%)	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

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.

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.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

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).

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9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: Bright, clear liquid. Mineral odor.
% VOC Essentially Zero @ 24 °C
FREEZING POINT: Not applicable
VAPOR PRESSURE Insignificant @ atmospheric pressure
pH Not available
SOLUBILITY IN WATER: Insoluble
VAPOR DENSITY (Air=1): 1+

<u>GRADE</u>	<u>VISCOSITY, CSt @ 40 °C</u>	<u>FLASH, °C (COC)</u>	<u>SPECIFIC GRAVITY</u>	<u>BOILING POINT, °C</u>
B 40	4.87	100	.8911	>316
B 50	6.68	96	.8927	>316
B 60	9.59	125	.9013	>316
B 80	15.66	146	.9053	>316
B 90	16.59	163	.9053	>316
B 100	20.08	152	.9076	>316
B 150	29.5	160	.9129	>316
B 180	37.67	183	.9176	>316
B 200	41.8	150	.9170	>316
B 300	60.0	173	.9279	>316
B 550	103	200	.9206	>316
B 750	144.5	210	.9261	>316
B 1200	192	227	.9309	>316
B 1500	300	218	.9291	>316
B-2000	369	241	.9279	>316
B-2400	472	227	.9285	>316

10. STABILITY AND REACTIVITY

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

11. TOXICOLOGICAL INFORMATION

TOXOLOGICAL INFORMATION (ANIMAL TOXICITY DATA)

Median Lethal Dose (LD50 LC50) (Species)

Oral: Believed to be >5g/kg (rat); practically non-toxic

Inhalation: Not Determined

Dermal: Believed to be >3 g/kg (rat); practically non-toxic.

Irritation Index Estimation of Irritation (Species).

Skin: Believed to be <0.5/8.0 (rabbit); no appreciable effect

Eyes: Believed to be <15/110 (rabbit); no appreciable effect

Sensitization: Not Available

Other: None

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12. ECOLOGICAL INFORMATION

No data is available on the adverse effects of this material on the environment. A film or sheen will cause discoloration of the water surface or adjoining shoreline.

13. DISPOSAL CONSIDERATIONS

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.

14. TRANSPORT INFORMATION

<u>PRODUCT</u>	<u>CLASS</u>	<u>DOT</u> <u>PLACARD NO.</u>	<u>PACKAGING</u>
Not App.	Not App	Not App.	Not App.

15. REGULATORY INFORMATION

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

OSHA: ARC Monographs state that when laboratory animals are exposed to severely hydrotreated oils, such as these product(s), there is insufficient evidence for cancer. Thus, 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	No Reportable Quantity (RQ) Substances
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We recommend you contact local authorities to determine if there may be other local reporting requirements

16. OTHER INFORMATION

Hazard Ratings Recommended for Containers

<u>NFPA</u>		<u>HMIS</u>	
Fire	1	Flammability	1
Health	1	Health	1
Reactivity	0	Reactivity	0
Specific Hazard	none	Personal Protection Index	B

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16. OTHER INFORMATION (CON'T)

This information is furnished without warranty, expressed or implied, except that it is accurate to the best knowledge of Cross Oil Refining & Marketing Company, Inc. The data on this sheet is related only to the specific material designated herein. Cross Oil Refining & Marketing Co., Inc. assumes no legal responsibility for use or reliance upon these data.

NA = Not Available

Not App. = Not Applicable

17. WARNING LABEL

Product Trade Name B SERIES, 40 / 2400 Date: 7/31/08

Tank Car Number: NA Cross Truck Loading Manifest No: NA

WARNING

Avoid Prolonged Breathing of Mist or Spray. Average exposure to airborne mist for an 8-hour workday should not exceed 5.0 milligrams of mist per cubic meter of air.

Avoid Eye and Skin Contact. Wear oil-impervious protective clothing. If clothes become contaminated, change to clean clothing after thoroughly washing exposed skin with soap and warm water.

FIRST AID

Inhalation: If overcome by fumes, remove from exposure immediately and call a physician.

Skin: Wash with warm water and soap until the exposed area is clean.

Eyes: Flush with water for at least fifteen (15) minutes. See physician if symptoms persist.

Ingestion: Do not induce vomiting. Obtain medical assistance. Small amounts that accidentally enter through the mouth should be rinsed out until no taste of it remains.

FIRE CONTROL

Use water spray or fog, chemical foam, dry powder or carbon dioxide.

SPILL / LEAK

Add absorbent (sand, sawdust, etc.) to the spill area. Contain spill. Advise State Environmental Protection Agency, if required. Put recovered material in an appropriate container and dispose of according to federal, state, and local regulations. For guidance call company (870) 881-8700, Ext. 1163

STORAGE

Store in original or equivalent container. Store at the lowest practical temperature. Keep container closed when not in use. Do not apply heat or flame to the container
