



MATERIAL SAFETY DATA SHEET

October 20, 2004

MSDS NUMBER W-4020
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<b>EMERGENCY TELEPHONE NUMBERS</b>	COMPANY 405-665-6565	CHEMTREC 800/424-9300
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**I. PRODUCT IDENTIFICATION**

PRODUCT <b>MC-30, MC-70, MC-250, MC-800, MC-3000</b>	CHEMICAL NAME AND SYNONYMS Cut Back Asphalt Medium Curing Cutbacks		
CHEMICAL FAMILY Petroleum Distillate & Asphaltic Bitumen	FORMULA N/AV		
National Fire Protection Association Hazard Rating Codes Least - 0    Slight - 1 Moderate - 2    High - 3    Extreme - 4	HEALTH CODE 0	FIRE CODE 2	REACTIVITY CODE 0

**II. SUMMARY OF HAZARDS**

CAUTION! COMBUSTIBLE LIQUID AND VAPOR. HARMFUL IF INHALED AND MAY CAUSE DELAYED LUNG INJURY. CAN CAUSE NERVOUS SYSTEM DEPRESSION. ASPIRATION HAZARD IF SWALLOWED - CAN ENTER LUNGS AND CAUSE DAMAGE. CAN CAUSE THERMAL BURN. Keep away from heat and flame. Avoid breathing vapor. Use ventilation adequate to keep vapor and fume below recommended exposure limits. Avoid contact with eyes, skin and clothing. Wash thoroughly after handling.

DOT Hazardous Material  YES	DOT SHIPPING NAME AND NUMBER Tars, Liquid, 3, UN1999, III	DOT HAZARD CLASS  3  (flammable Liquid)
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**III. HAZARDOUS COMPONENTS**

INGREDIENT	% RANGE	PEL/TLV	HAZARD
Petroleum Asphalt (CAS # 8052-42-4)	50 - 90	TWA - 5 mg/m3	Combustible Acute Health Chronic Health
Straight Run Kerosine (CAS # 8008-20-6)	10 - 50	Petroleum Distillate TWA - 400 ppm	

**IV. HEALTH INFORMATION**

EXPOSURE BY ROUTE OF ENTRY	EXPOSURE CHARACTERISTICS AND FIRST AID	
INHALATION	EFFECTS	Acute: Headache, nasal and respiratory irritation, nausea, drowsiness, breathlessness, fatigue, central nervous system depression, convulsions, and loss of consciousness.
	FIRST AID	Move exposed person to fresh air. If breathing has stopped, perform artificial respiration. Get medical attention as soon as possible.
SKIN	EFFECTS	Acute: Irritation, thermal burn  Chronic: dermatitis
	FIRST AID	If clothing soaked, immediately remove clothing and wash skin with soap and water. Launder clothing before wearing. For thermal burn: cool, flush with water, wrap with sterile dressing and apply cold pack. Get medical attention promptly.
EYES	EFFECTS	Acute: Irritation, thermal burn
	FIRST AID	Immediately flush eyes with water for a minimum of 15 minutes, occasionally lifting the lower and upper lids. Get medical attention promptly.
SWALLOWING INGESTION	EFFECTS	Acute: aspiration hazard, headache, nausea, drowsiness, fatigue, pneumonitis, pulmonary edema, central nervous system depression, convulsions and loss of consciousness.
	FIRST AID	Call a physician immediately, ONLY induce vomiting at the instruction of a physician. Never give anything by mouth to an unconscious person

Medical conditions Generally

Agravated by Exposure

N/AV

LISTED AS POTENTIAL CARCINOGEN OR CARCINOGEN	NOT LISTED <input checked="" type="checkbox"/> INTERNATIONAL Agency for Research on Cancer _____	NATIONAL TOXICOLOGY PROGRAM _____ OSHA _____
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## V. EMPLOYEE PROTECTION

RESPIRATORY PROTECTION (NIOSH APPROVED RESPIRATORS SEE OSHA STD. 1910.134)

Up to 4000 ppm vapor & 50 mg/m<sup>3</sup> asphalt, half-mask respirator with combination dust & organic vapor cartridges. Up to 20000 ppm vapor & 250 mg/m<sup>3</sup> asphalt, full-face respirator with combination dust & organic vapor cartridges or supplied air respirator. Greater than 20000 ppm vapor & 250 mg/m<sup>3</sup> asphalt, fire fighting, or unknown concentration, self contained breathing apparatus.

EYE

Safety glasses, chemical goggles or face shield as appropriate.

SKIN

Gloves, long-sleeved shirt and cuffless trousers to protect from heated asphalt.

VENTILATION

Maintain local or dilution ventilation to keep air concentration of vapor below 400 ppm and asphalt below 5 mg/m<sup>3</sup>. Loading, unloading, tank gauging, etc., remain upwind. Request assistance of safety and industrial hygiene personnel in determining air concentrations.

## VI. FIRE PROTECTION INFORMATION

FLASH POINT AND METHOD MC 30/70--minimum flash 100°F	AUTOIGNITION TEMPERATURE ESTIMATED	FLAMMABLE LIMITS % VOLUME IN AIR ESTIMATED	LOWER 0.7	UPPER 6
MC 250/800/3000--minimum flash 150°F	650 °F			

EXTINGUISHING MEDIA

Water spray, dry chemical, foam or carbon dioxide. Water or foam may cause frothing. Use water to keep fire-exposed containers cool.

HAZARDOUS DECOMPOSITION PRODUCTS

Incomplete combustion can yield carbon monoxide and various hydrocarbons.

FIRE AND EXPLOSION HAZARDS

Can form combustible mixtures with air when heated.

STORAGE

Do not store with strong oxidizers. Store as OSHA Class II combustible liquid.

HAZARDOUS POLYMERIZATION

WILL NOT OCCUR  MAY OCCUR

STABILITY

STABLE  UNSTABLE

## VII. PHYSICAL AND CHEMICAL PROPERTIES

BOILING POINT greater than 300 °F	Reid VAPOR PRESSURE (RVP) at 100 °F ESTIMATED less than 0.1 pound	EVAPORATION (ETHYL ETHER = 1) ESTIMATED N/A
PERCENT VOLATILE BY VOLUME (%) N/AV	AVG. MOLECULAR WEIGHT N/AV	APPEARANCE Black liquid
ODOR Kerosine, Diesel, Asphalt	DROP POINT N/AV	ESTIMATED VAPOR DENSITY (AIR = 1) 6
SPECIFIC GRAVITY 0.9 to 1.0	VISCOSITY 30 - 6000 cs at 140 °F	SOLUBILITY (G/100g WATER AT 20° C) Negligible

### VIII. ENVIRONMENTAL PROTECTION

S P I L L S	Notify emergency response personnel. Evacuate area and remove ignition sources. Build dike to contain flow. Remove free liquid, do not flush to sewer or open water. Pick up with inert absorbent and place in closed container for disposal.
D W I A S P T O S E A L	Utilize licensed waste disposal company. Consider recycling or incineration. Utilize permitted hazardous waste disposal site or industrial waste disposal site as appropriate.

ADDITIONAL INFORMATION

PREPARED BY

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DATE PREPARED

October 20, 2004

#### DISCLAIMER

The information and recommendations contained in this publication have been compiled from sources believed to be reliable and to represent the best current opinion on the subject at the time of publication. Since we cannot anticipate or control the many different conditions under which this information or our products may be used, we make no guarantee that the recommendations will be adequate for all individuals or situations. Each user of the product described herein should determine the suitability of the described product for his particular purpose and should comply with all federal and state rules and regulations concerning the described product.

#### ABBREVIATIONS

CAS #	Chemical Abstracts Service Number
N/A	Not Applicable
N/AV	Not Available
ppm	Parts per million
PEL	Permissible Exposure Limit
TLV	Threshold Limit Value
	Both the OSHA PEL and the American Conference of Governmental Industrial Hygienists TLV were reviewed. Where a difference existed, the more restrictive of the two was selected.
STEL	Short Term Exposure Limit
TWA	Time-Weighted Average