

SDS #: 200

DATE REVISED: 12/20/2017
SUPERSEDES ANY PREVIOUS

Section 1 Product Identification/Contact Information

Generic Category: Medium Cure Cutback Asphalts
Product Name(s): MC-70, MC-70NV, MC-250, MC-500, MC-800, MC-3000
Formula: Trade Secret
Company Address: Idaho Asphalt Supply, Inc.
P.O. Box 50538
Idaho Falls, ID 83405
PHONE: (208) 524-5871
EMERGENCY PHONE: Chemtrec (800) 424-9300
Product Use: Road Paving and Resurfacing

Section 2 Hazard(s) Identification

Classifications: Flammable liquids - Category 3
Acute toxicity, inhalation - Category 4
Skin corrosion/irritation - Category 2
Germ cell mutagenicity - Category 1B
Carcinogenicity - Category 2
Reproductive toxicity - Category 2
Specific target organ toxicity, repeated exposure - Category 1
Aspiration hazard - Category 1
Hazardous to the aquatic environment, long-term hazard - Category 2

Signal Word: WARNING

Hazards: May cause irritation and burns to skin and eyes when brought in contact.

Inhalation: This product is not likely to present an inhalation hazard during normal use. At elevated temperatures and in confined spaces, vapors may cause irritation of the respiratory tract.

Skin Absorption: No significant symptoms indicative of skin absorption expected.

Skin Irritation: Will cause burns when product is hot. May cause dermatitis and acne like lesion with prolonged exposure.

Ingestion: Ingestion of this material can cause severe irritation or burns of the mouth, throat, esophagus, and stomach. May cause nausea and vomiting.

Eye Contact: Will burn and irritate.

Primary Route of Exposure: Skin and eye contact are the primary routes of exposure to this product.

Carcinogen: The International Agency for Research on Cancer (IARC) concluded that occupational exposures to asphalt fume during paving operations are "possibly carcinogenic to humans" (Group 2B).



Section 3**Composition/Information on Ingredients**

<u>Ingredients</u>	<u>CAS #</u>	<u>Concentration</u>
Asphalt Cement	8052-42-4	60 to 90%
No.1 Fuel	8008-20-6	< 40%
No. 2 Fuel	68476-30-2	< 40%
Hydrogen Sulfide	7783-06-4	< 0.1%
Polycyclic aromatic hydrocarbons	130498-29-2	< 0.1%

Section 4**First Aid Measures**

Inhalation:	Remove to fresh air. Give oxygen or artificial respiration as needed. Obtain medical attention promptly.
Eye Contact:	Flush eyes with low pressure water for at least 15 minutes and obtain medical attention immediately.
Skin Contact:	If hot product should contact skin, thermal burns will result. Immediately cool the affected area with cold water. It is not advisable to immediately remove product. Natural separation will occur in 48 -78 hours. Removal should be attempted only under the direction of a physician.
Ingestion:	If ingested, do not induce vomiting, call a physician immediately.

Section 5**Fire Fighting Measures**

Flash Point:	49 to 85°C (120 to 185°F) OTC		
Autoignition Temperature			
NFPA:	Not Available		
Extinguishing Media:	Dry Chemical, CO ₂ , Class "B" extinguisher or foam. DO NOT APPLY WATER		
Caution:	Static electricity may be source of ignition.		
Special Fire Fighting Procedures:	Avoid breathing vapors, wear self-contained breathing apparatus.		
Unusual Fire Explosion Hazards:	Water in contact with hot asphalt may result in a violent reaction causing an increase in tank pressure and substantial foaming of the product.		
Fire & Explosion Hazards:	Combustible liquid by OSHA standards.		
LEL/UEL:	0.5/5 % by volume		
Hazard Rating:	HMIS	NFPA	Hazard Rating Scale
Health:	2	2	0 - Minimal
Fire:	2	2	3 - Serious
Reactivity	0	0	4 - Severe
Special Fire Fighting Procedures:	0	0	2 - Moderate

Section 6**Accidental Release Measures**

Notification and Personal Precautions: In the event of a spill or accidental release, immediately contact emergency personnel and notify relevant authorities in accordance with all applicable regulations. If the release of this material to the environment could reach any waterway including intermittent dry creeks, contact the National Response Center at (800)424-8802.

Land Spill: Stop release by making earthen dike, prevent flow from entering sewers and water ways. Allow to cool. Remove large spill. Soak up product with sand.

Waste Disposal: Handle in accordance with federal, state and local regulations.

Section 7**Handling and Storage**

Precautions for safe handling: Use only in well-ventilated areas. Eliminate sources of ignition. Avoid spark promoters. Ground/bond container and equipment. Do not smoke near areas where material is handled or stored. The product should only be used in areas where electrical classification meets the product rating for this product, i.e. intrinsically safe. Use only in area provided with appropriate exhaust ventilation. Vapors may form explosive mixtures with air. These alone may be insufficient to remove static electricity. Wear personal protective equipment. Do not breathe gas/fumes/vapor/spray. Avoid contact with eyes, skin, and clothing. Do not taste or swallow. Avoid prolonged exposure.

Conditions for safe storage: Handle as a combustible liquid. Keep away from heat, sparks, and open flame! Electrical equipment should be approved for classified area. Bond and ground containers during product transfer to reduce the possibility of static-initiated fire or explosion. Consult API Recommended Practice 2023 for additional guidance. Store distant from fire and ignition sources. No smoking near areas where material is stored or used.

Keep away from flame, sparks, excessive temperatures and open flame. Use approved vented containers. Keep containers closed and clearly labeled. Empty product containers or vessels may contain explosive vapors. Do not pressurize, cut, heat, weld or expose such containers to sources of ignition.

Section 8**Exposure Controls/Personal Protection**

Chemical Name	PEL (OSHA)	STEL (OSHA)	STEL (ACGIH)	TWA (ACGIH)
Asphalt Cement Fumes				0.5 mg/m ³
No.1 Fuel Oil	100 mg/m ³			
No.2 Fuel Oil	100 mg/m ³			
Hydrogen Sulfide		20 ppm	5 ppm	1 ppm

Respiratory Protection: Avoid breathing vapors in confined spaces. NOISH approved respirators may be required if TLV's are exceeded.

Eye Protection: Use safety glasses, goggles or face shields.

Skin Protection: PPE selection based on the specific use conditions. When handling product at elevated temperatures, use long-cuffed heat resistant gloves. When product is at ambient temperatures, use gloves constructed of chemical resistant materials such as heavy nitrile rubber. Use coveralls, impervious apron and long sleeved shirts and wear impervious footwear

Engineering Controls: Local exhaust ventilation may be required to meet exposure standards in confined areas.

Handling Precautions: Storage tanks and trucks must be emptied, cooled, ventilated, and tested for absence of vapors before allowing personnel entry.

Section 9 Physical & Chemical Properties

Boiling Point: > 155°C (311°F) **Vapor Density (Air= 1) :** >1
Specific Gravity @ at 15.6°C (60°F): 0.9 to 1.05 **Evaporation Rate (nBuAc = 1) :** <1
Viscosity: <6000 cSt at 60°C (140°F) **Solubility in Water:** Insoluble
Melting Point: Not Established **Vapor Pressure (mm Hg):** <1
Appearance and Odor: Black liquid or solid; odor of hydrocarbons

Section 10 Stability and Reactivity

Stable: YES
Conditions to Avoid: DO NOT APPLY WATER, Open flame and extreme heat.
Incompatible Materials: Avoid strong oxidizing agents.
Hazardous Decomposition Products: Combustion may form CO₂, CO and sulfur dioxide.
Hazardous Polymerization: Will not occur.

Section 11 Toxicological Information

Information on likely routes of exposure

Ingestion: Expected to be a low ingestion hazard.
Inhalation: Prolonged inhalation may be harmful.
Skin contact: Thermal burn hazard.
Eye contact: Harmful in contact with eyes

Information on toxicological effects

Acute toxicity

Ingredient	Result	Species	Dose	Exposure
Asphalt	LD50 Dermal	Rabbit	>2000 mg/kg	-
	LD50 Oral	Rat	>5000 mg/kg	-
Fuel, No.1	LC50 Inhalation Vapor	Rat	>5.28 mg/l	5 hrs
	LD50 Oral	Rat	>5000 mg/kg	-
	LD50 Dermal	Rabbit	>2000 mg/kg	-
Fuel, No.2	LC50 Inhalation Vapor	Rat	>4.1 mg/l	4 hrs
	LD50 Oral	Rat	>7600 mg/kg	-
	LD50 Dermal	Rabbit	>4300 mg/kg	-

Irritation/Corrosion: Not available.

Carcinogenicity

NTP: Asphalt (CAS-No.: 8052-42-4), may contain trace amounts of benzene a chemical known to cause cancer.
No. 1 Fuel (Kerosene) (CAS-No.: 8008-20-6), may contain chemicals known to cause cancer.
No. 2 Fuel (Diesel) (CAS-No.: 8002-26-4), may contain chemicals known to cause cancer.

IARC: Asphalt (Bitumen) (CAS-No.: 8052-42-4) Group 2B possibly carcinogenic to humans
No. 1 Fuel (Kerosene) (CAS-No.: 8008-20-6), Group 2B possibly carcinogenic to humans
No. 2 Fuel (Diesel) (CAS-No.: 8002-26-4), Group 2B possibly carcinogenic to humans

OSHA: Asphalt (CAS-No.: 8052-42-4), may contain trace amounts of benzene a chemical known to cause cancer.
No. 1 Fuel (Kerosene) (CAS-No.: 8008-20-6), may contain chemicals known to cause cancer.
No. 2 Fuel (Diesel) (CAS-No.: 8002-26-4), may contain chemicals known to cause cancer.

Teratogenicity

Specific target organ toxicity (single exposure): Not Available.

Specific target organ toxicity (repeated exposure):

Ingredient	Category	Route of exposure	Target Organs
Fuel, No.1	Category 2	Skin	Bone marrow, liver and thymus
Fuel, No.2	Category 2	Skin	Bone marrow, liver and thymus

Aspiration hazard:

Ingredient	Category
Fuel, No.2	Aspiration Hazard, Category 1

Information on the likely routes of exposure: Routes of entry anticipated: Oral, Dermal, Inhalation.

Delayed and immediate effects and also chronic effects from short and long term exposure

Short term exposure

Potential immediate effects: Not Available
Potential delayed effects: Not Available

Long term exposure

Potential immediate effects: Not Available
Potential delayed effects: Not Available

Potential chronic health effects

General: Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.

Carcinogenicity: Suspected of causing cancer. Risk of cancer depends on duration and level of exposure.

Mutagenicity: No known significant effects or critical hazards.

Teratogenicity: No known significant effects or critical hazards.

Developmental effects: No known significant effects or critical hazards.

Fertility effects: No known significant effects or critical hazards.

Numerical measures of toxicity

Acute toxicity estimates: Not Available

Section 12**Ecological Information**

Eco-toxicity:	This material is not expected to have a significant adverse effect on the environment
Persistence and degradability:	No data is available on the degradability of this product.
Bioaccumulative potential:	No data available.
Mobility in soil:	No data available.
Other adverse effects:	No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

Section 13**Disposal Consideration**

Disposal:	Recover as much spilled material as possible for reuse or recycling. Disposal of waste material must be conducted in accordance with RCRA regulations (see 40CFR 260 through 40 CFR 271).
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Section 14**Transportation Information****CFR**

Proper shipping name:	Hot Asphalt, Cutback
UN-No.:	1999
Class:	3
Packing group:	III

TDG

Proper shipping name:	Hot Asphalt, Cutback
UN-No.:	1999
Class:	3
Packing group:	III

IATA

Proper shipping name:	C
UN-No.:	1999
Class:	3
Packing group:	III

IMDG-Code

UN-No.:	1999
Description of the goods:	Hot Asphalt, Cutback
Class:	3
Packaging group:	III
IMDG-Labels:	F-E S-E
EmS Number:	No
Marine pollutant:	Yes

Section 15**Regulatory Information****CERCLA SECTION 103 and SARA SECTION 304 (RELEASE TO THE ENVIRONMENT)**

The CERCLA definition of hazardous substances contains a "petroleum exclusion" clause which exempts crude oil. Fractions of crude oil, and products (both finished and intermediate) from the crude oil refining process and any indigenous components of such from the CERCLA Section 103 reporting requirements. However, other federal reporting requirements, including SARA Section 304, as well as the Clean Water Act may still apply.

TSCA Status: On TSCA Inventory
DSL Status: All components of this product are on the Canadian DSL list.
SARA 311/312 Hazards: Acute Health Hazard
California Prop. 65: WARNING! This product contains a chemical known to the State of California to cause cancer.
Asphalt 8052-42-4

Section 16**Other Information**

Some of the information presented and conclusions drawn herein are from sources other than direct test data on the product itself. The information in this SDS was obtained from sources which we believe reliable. However, the information is provided without any warranty, expressed or implied, regarding its correctness.

The conditions or methods of handling, storage, use and disposal of the products are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product.

This SDS was prepared and is to be used only for these products. If the product is used as a component in another product, this SDS information may not be applicable.

This SDS has been prepared in accordance with the requirements of the OSHA Hazardous Communication Standard (29 CFR 1200)