

## Medium Curing Cutback

### SECTION 1. IDENTIFICATION

<b>Product Identifier</b>	Medium Curing Cutback
<b>Other Means of Identification</b>	(i) MC-30, MC-70, MC-250, MC-800, MC-3000; HFC (+), UPM (+)
<b>Recommended Use</b>	Road Asphalt/Damp-proofing.
<b>Manufacturer/Supplier Identifier</b>	McAsphalt Industries Ltd, 8800 Sheppard Ave East, Toronto, Ontario, M1B 5R4, 416-281-8181
<b>Emergency Phone No.</b>	CANUTEC, (613) 996 - 6666, 24 hours McAsphalt Industries Ltd., 1 - (800) - 268 - 4238, 8AM-5PM Monday to Friday
<b>SDS No.</b>	0136

### SECTION 2. HAZARD IDENTIFICATION

**Classification**

Flammable liquid - Category 3; Acute toxicity (Inhalation) - Category 4

**Label Elements**



**Warning**

Harmful if swallowed, in contact with skin or if inhaled

Keep away from heat/sparks/open flames/hot surfaces. – No smoking.

Avoid breathing dust/fume/gas/mist/vapours/spray.

For hot asphalt splash, cool affected body part with water immersion or shower. Do not attempt to remove asphalt from the skin. Natural separation will occur in about 48-72 hours.

IF exposed or concerned, get medical advice/attention.

**Other Hazards**

Dark Black, Semi-solid with characteristic asphaltic odour or "rotten egg" odour if H2S present, but odour is an unreliable warning, since it may deaden the smell. Can cause thermal burns, exposures require specialized first-aid and medical follow-up. Prolonged or repeated skin contact can cause drying of the skin which may produce irritation or dermatitis.

### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No.	%	Other Identifiers	Other Names
Stoddard solvent	8052-41-3	15-50		
Asphalt (Bitumen)	8052-42-4	40-80		
FUEL OIL NO. 2	68476-30-2	15-50		

## SECTION 4. FIRST-AID MEASURES

### First-aid Measures

#### Inhalation

Move to fresh air. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel.

#### Skin Contact

For hot asphalt splash, cool affected body part with water immersion or shower. Do not attempt removal of asphalt but split longitudinally if circumferential to avoid tourniquet effect. No attempt should be made to remove firmly adhering bitumen from the skin. Once the bitumen has cooled, it will do no further harm and in fact provide a sterile covering over a burnt area. As healing takes place, the bitumen plaque, the bitumen plaque will detach itself, usually after a few days. For skin soiling without underlying burn, cleanse with mineral oil followed by soap and water. Use olive oil in vicinity of eyes. Take off contaminated clothing, shoes and leather goods (e.g. watchbands, belts). Call a Poison Centre or doctor if you feel unwell. If skin irritation occurs, get medical advice or attention. Thoroughly clean clothing, shoes and leather goods before reuse or dispose of safely.

#### Eye Contact

If a contact lens is present, DO NOT delay flushing or attempt to remove the lens. Immediately rinse the contaminated eye(s) with lukewarm, gently flowing water for 15-20 minutes, while holding the eyelid(s) open. Get medical attention immediately.

#### Ingestion

Rinse mouth with water. Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention immediately. Call a Poison Centre or doctor if you feel unwell.

### Most Important Symptoms and Effects, Acute and Delayed

If inhaled:

Can irritate the nose and throat. Symptoms may include coughing, shortness of breath, difficult breathing and tightness in the chest.

If in eyes:

Symptoms include sore, red eyes, and tearing.

If swallowed:

Can irritate the mouth, throat and stomach. Permanent damage can result. Symptoms may include nausea, vomiting, stomach cramps and diarrhea.

If on skin: repeated or prolonged exposure can irritate or burn the skin.

### Immediate Medical Attention and Special Treatment

#### Target Organs

Skin: can cause irritation, dermatitis. Skin defatting with chronic exposure.

#### Special Instructions

No specific treatment. Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

#### Medical Conditions Aggravated by Exposure

Repeated or prolonged contact with spray or mist may produce chronic eye irritation and severe skin irritation. Repeated skin exposure can produce local skin destruction or dermatitis.

## SECTION 5. FIRE-FIGHTING MEASURES

### Extinguishing Media

#### Suitable Extinguishing Media

Carbon dioxide, dry chemical powder or appropriate foam.

#### Unsuitable Extinguishing Media

Do not spray water onto curing product as this may cause spattering and spreading of the flame.

### Specific Hazards Arising from the Product

Combustible liquid. Can ignite if heated. Releases vapour that can form explosive mixture with air at or above the flash

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point. See Section 9 (Physical and Chemical Properties) for flash point and explosive limits.

This material is sensitive to static discharge at temperatures above the flash point.

Carbon oxides (CO, CO<sub>2</sub>), smoke and irritating vapours as products of incomplete combustion. Hydrogen sulphide, smoke, fume, aldehydes, sulphur oxides, incomplete combustion products, oxides of carbon.

#### **Special Protective Equipment and Precautions for Fire-fighters**

Chemical protective clothing (e.g. chemical splash suit) and positive pressure SCBA may be necessary.

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## **SECTION 6. ACCIDENTAL RELEASE MEASURES**

### **Personal Precautions, Protective Equipment, and Emergency Procedures**

No action shall be taken involving any personal risk or without suitable training. Evacuate the area immediately. Isolate the hazard area. Keep out unnecessary and unprotected personnel. Do not touch damaged containers or spilled product unless wearing appropriate protective equipment. Increase ventilation to area or move leaking container to a well-ventilated and secure area. Use the personal protective equipment recommended in Section 8 of this safety data sheet. Monitor area for flammable or explosive atmosphere.

### **Environmental Precautions**

It is good practice to prevent releases into the environment. Do not allow into any sewer, on the ground or into any waterway. If the spill is inside a building, prevent product from entering drains, ventilation systems and confined areas. Minimize the use of water to prevent environmental contamination. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

### **Methods and Materials for Containment and Cleaning Up**

Small spills or leaks: stop or reduce leak if safe to do so. Contain and soak up spill with absorbent that does not react with spilled product. Do NOT use combustible materials such as sawdust. Cover the spill surface with the appropriate type of foam to reduce the release of vapour. Place used absorbent into suitable, covered, labelled containers for disposal. Contaminated absorbent poses the same hazard as the spilled product. Large spills or leaks: dike spilled product to prevent runoff. Knock down gas with fog or fine water spray. Knock down vapour with fog or fine water spray. Do not direct water at spill or source. Remove or recover liquid using pumps or vacuum equipment. Flush spill area. Dike and recover contaminated water for appropriate disposal. Use water fog or spray curtain to reduce amount of dust in air. Get expert advice before treating the spilled product with other chemicals to make it less hazardous. Store recovered product in suitable containers that are: covered, tightly-covered. Review Section 13 (Disposal Considerations) of this safety data sheet. Contact emergency services and manufacturer/supplier for advice.

### **Other Information**

Report spills to local health, safety and environmental authorities, as required. Contact supplier, local fire and emergency services for help. Do not use combustible absorbents, such as sawdust.

## **SECTION 7. HANDLING AND STORAGE**

### **Precautions for Safe Handling**

Only use where there is adequate ventilation. Avoid generating vapours or mists. Avoid generating dusts. Prevent uncontrolled release of product. Immediately report leaks, spills or failures of the safety equipment (e.g. ventilation system). In the event of a spill or leak, exit the area immediately. Eliminate heat and ignition sources such as sparks, open flames, hot surfaces and static discharge. Post "No Smoking" signs. Do not use near welding operations or other high energy sources. Avoid heating that will increase the amount of vapours. Do not weld, cut or perform hot work on empty container until all traces of product have been removed. Good housekeeping is extremely important. Prevent dust accumulation on ALL surfaces including ceiling rafters and other hidden surfaces. Do not use compressed air to clean equipment, clothing or spills. Electrically bond and ground equipment. Ground clips must contact bare metal. Increase conductivity by reducing flow rate in transfer operations and/or handle at lower temperature. Prevent accidental contact with incompatible chemicals. Wear personal protective equipment to avoid direct contact with this chemical. Avoid shock, friction or impact. Do not skid, drag or drop containers. Do not chip or grind lumps. During storage, transit and cooling of asphalt, solvent vapour and hydrogen sulphide may accumulate in enclosed spaces such as tank cars. Open tank car hatches with caution. Maintain same precautions when gauging and sampling.

### **Conditions for Safe Storage**

Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials(see section 10) and food and drink. Keep container tightly

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closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. Engineering controls are usually required in the storage area to protect against the product's hazard(s). Review Section 8 (Exposure Controls/Personal Protection) for information. See advice on temperature in Conditions to Avoid in Section 10 (Stability and Reactivity) to determine suitable storage temperature. Electrically bond and ground containers. Ground clips must contact bare metal. Avoid bulk storage indoors. Do not handle swollen drums. Get expert advice. Empty containers may contain hazardous residue. Store separately. Keep closed. Follow all precautions given on this safety data sheet. Comply with all applicable health and safety regulations, fire and building codes.

## SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Control Parameters

Chemical Name	ACGIH TLV®		OSHA PEL		AIHA WEEL	
	TWA	STEL	TWA	Ceiling	8-hr TWA	TWA
Asphalt (Bitumen)	0.5 mg/m <sup>3</sup> (l) A4 BEI		Not established			
Stoddard solvent	100 ppm		100 ppm			
FUEL OIL NO. 2	100 mg/m <sup>3</sup>					

### Appropriate Engineering Controls

Use only with adequate ventilation. Exhaust ventilation/engineering controls need to keep vapour and gas concentrations below recommended limits and below any lower explosive limits.

### Individual Protection Measures

#### Eye/Face Protection

Wear chemical safety goggles and face shield when contact is possible.

#### Skin Protection

Wear chemical protective clothing e.g. gloves, aprons, boots.  
Suitable materials are: nitrile rubber.

#### Respiratory Protection

If a risk assessment indicates that it is necessary (i.e. H<sub>2</sub>S concentration is above 10ppm exposure limit), use a properly fitted, air-purifying or air-fed respirator complying with an approved standard. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator. Recommended: organic vapour filter cartridge or canister with a dust, fume or mist filter (R, or P series) may be permissible under certain circumstances where airborne concentrations are expected to exceed exposure limits. Protection provided by air-purifying respirators is limited.

## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

### Basic Physical and Chemical Properties

<b>Appearance</b>	Dark black.
<b>Odour</b>	Characteristic asphaltic odour or "rotten egg" odour if H <sub>2</sub> S present, but odour is an unreliable warning, since it may deaden the sense of smell.
<b>Odour Threshold</b>	Not available
<b>pH</b>	Not available
<b>Melting Point/Freezing Point</b>	Not available (melting); Not applicable (freezing)
<b>Initial Boiling Point/Range</b>	149.0 - 204.5 °C (300.2 - 400.1 °F)
<b>Flash Point</b>	>= 56 °C (133 °F) (open cup)
<b>Evaporation Rate</b>	Not available
<b>Upper/Lower Flammability or Explosive Limit</b>	6.5% (upper); 0.7% (lower)
<b>Vapour Pressure</b>	0.53 - 0.60 kPa at 25 °C (77 °F)
<b>Vapour Density (air = 1)</b>	5

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<b>Relative Density (water = 1)</b>	0.938
<b>Solubility</b>	Insoluble in water
<b>Partition Coefficient, n-Octanol/Water (Log Kow)</b>	Not available
<b>Auto-ignition Temperature</b>	Not available
<b>Viscosity</b>	Not available (kinematic)
<b>Other Information</b>	
<b>Physical State</b>	Liquid
<b>Bulk Density</b>	Not available

## SECTION 10. STABILITY AND REACTIVITY

### Reactivity

Not reactive under normal conditions of use.

### Chemical Stability

Stable under normal storage conditions.

### Possibility of Hazardous Reactions

Hazardous polymerizations does not occur.

### Conditions to Avoid

Open flames, sparks, static discharge, heat and other ignition sources.

### Incompatible Materials

Acides. Bases. Oxidizers.

### Hazardous Decomposition Products

May release CO<sub>x</sub>, NO<sub>x</sub>, SO<sub>x</sub>, PO<sub>x</sub>, H<sub>2</sub>S, hydrocarbons, smoke and irritating vapours when heated to decomposition.

## SECTION 11. TOXICOLOGICAL INFORMATION

The following toxicological assessment is based on knowledge of the toxicity of the product's components.

### Likely Routes of Exposure

Eye contact; inhalation; ingestion; skin absorption.

### Acute Toxicity

Chemical Name	LC50	LD50 (oral)	LD50 (dermal)
Asphalt (Bitumen)	> 94.4 mg/m <sup>3</sup> (rat)	> 5000 mg/kg (rat)	> 2000 mg/kg (rabbit)
Stoddard solvent	> 1300 ppm (rat) (4-hour exposure)	> 5000 mg/kg (rat)	> 3000 mg/kg (rabbit)
FUEL OIL NO. 2		~ 12000 mg/kg (rat)	

### Skin Corrosion/Irritation

Irritating to skin. Signs/symptoms may include localized redness, swelling, and itching. Hot liquid product may cause serious thermal burns on direct contact. Asphalt fumes can increase susceptibility to sunburn.

Contact may cause irritation to the skin and mucous membranes upon prolonged and / or repeated skin contact. Prolonged or repeated contact to petroleum oil with skin may cause defatting of skin leading to redness, itching, inflammation, cracking, dermatitis (rash).

### Serious Eye Damage/Irritation

May cause mild irritation to eyes. Signs/symptoms may include redness, swelling, pain, tearing, and blurred or hazy vision. Hot liquid product may cause serious thermal burns on direct contact. Hydrogen sulphide may cause eye irritation at 1 - 20 ppm and acute conjunctivitis at higher concentrations. Above 50 ppm H<sub>2</sub>S, eye irritation may include symptoms of redness, sever swelling, tearing, sensitivity to light and the appearance of 'Halos' around lights.

### STOT (Specific Target Organ Toxicity) - Single Exposure

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**Inhalation**

May be harmful based on limited evidence.

May cause irritation to the respiratory system.

Can irritate the nose and throat. Symptoms may include coughing, shortness of breath, difficult breathing and tightness in the chest.

**Skin Absorption**

May be harmful based on limited evidence.

May be harmful if absorbed through the skin.

**Ingestion**

May be harmful based on limited evidence.

Low order of acute toxicity. May cause nausea, vomiting and diarrhea.

Can irritate the mouth, throat and stomach.

**STOT (Specific Target Organ Toxicity) - Repeated Exposure**

Harmful based on limited evidence.

effects similar to STOT (Specific Target Organ Toxicity) - Single Exposure, as described above. May cause irritation of the respiratory system. May cause respiratory tract injury, areas of skin to darken.

Although the material in general is not considered to have chronic effects, it may contain benzene, a listed carcinogen.

**Carcinogenicity**

Chemical Name	IARC	ACGIH®	NTP	OSHA
Asphalt (Bitumen)	Group 2B	A4		
FUEL OIL NO. 2	Group 3	A3	Not Listed	

The International Agency for Research on Cancer (IARC) has determined that occupational exposures to oxide asphalt and their emissions during roofing operations are "probably carcinogenic to humans" (Group A). IARC concluded that occupational exposures to hard asphalts and their emissions during mastic asphalt work are "possibly carcinogenic to humans" (Group 2B). IARC concluded that occupational exposure to straight-run asphalts and their emissions during paving operations are "possibly carcinogenic to humans" (Group 2B).

Key to Abbreviations

IARC = International Agency for Research on Cancer.

**Reproductive Toxicity****Development of Offspring**

No information was located.

No known significant effects or critical hazards.

**Sexual Function and Fertility**

Does not cause effects on sexual function or fertility.

Not known to be a reproductive hazard.

**Germ Cell Mutagenicity**

No information was located.

The material in general is not expected to produce mutagenic effects.

**Interactive Effects**

No information was located.

Not available

**SECTION 12. ECOLOGICAL INFORMATION**

Environmental affects: No known significant effects or critical hazards. Keep out of sewers, drainage areas and waterways. Report spills and releases, as applicable under Federal and Provincial regulations.

**Ecotoxicity**

Marine Pollutant.

**Persistence and Degradability**

No information was located.

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**Bioaccumulative Potential**

No information was located.

**Mobility in Soil**

Studies are not available.

**Other Adverse Effects**

There is no information available.

**SECTION 13. DISPOSAL CONSIDERATIONS****Disposal Methods**

Contact local environmental authorities for approved disposal or recycling methods in your jurisdiction. Recycle and reuse product, if possible. The required hazard evaluation of the waste and compliance with the applicable hazardous waste laws are the responsibility of the user. This product and its container must be disposed of as hazardous waste. Do NOT dump into any sewers, on the ground or into any body of water. The container for this product can present explosion or fire hazards, even when emptied. Do not cut, puncture, or weld on or near this container. Do not reuse empty containers. Dispose of or recycle empty containers through an approved waste management facility. Store product for disposal as described under Storage in Section 7 of this safety data sheet.

**SECTION 14. TRANSPORT INFORMATION**

Regulation	UN No.	Proper Shipping Name	Transport Hazard Class(es)	Packing Group
US DOT	1999	Medium Curing Cutback	3	III
Canadian TDG	1999	Medium Curing Cutback	3	III

**Environmental Hazards** Potential Marine Pollutant (Stoddard solvent)

**Special Precautions** Please note: PG\* : Packing group

**Transport in Bulk According to Annex II of MARPOL 73/78 and the IBC Code**

Not applicable

**SECTION 15. REGULATORY INFORMATION****Safety, Health and Environmental Regulations****Canada****Domestic Substances List (DSL) / Non-Domestic Substances List (NDSL)**

The components of this product are in compliance with the chemical notification requirements of the NSN Regulation under CEPA, 1999. All ingredients are listed on the DSL or are not required to be listed.

**USA****Toxic Substances Control Act (TSCA) Section 8(b)**

The components of this product are in compliance with the chemical notification requirements of TSCA all ingredients are on the TSCA Inventory or are exempt from TSCA Inventory requirements under 40 CFR 720.

**Additional USA Regulatory Lists**

SARA Title III - Section 302: Not listed SARA Title III - Section 304 EHS RQ (lbs.) Not listed SARA Title III - Section 313: Not listed CERCLA: Not listed RCRA CODE Not listed CAA 112(r) TQ (lbs.) Not listed.

**SECTION 16. OTHER INFORMATION**

**NFPA Rating** Health - 2 Flammability - 2 Instability - 1

**Based on** Stoddard solvent

**SDS Prepared By** EPC & Risk Management Department

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**Phone No.** 1 (416) 281 - 8181  
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**Revision Indicators** Mar 25 2021: Section 14 was updated to include new UN number 1999.  
**Key to Abbreviations** ACGIH® = American Conference of Governmental Industrial Hygienists  
AIHA® = AIHA® Guideline Foundation HSDB® = Hazardous Substances Data Bank  
IARC = International Agency for Research on Cancer  
NFPA = National Fire Protection Association NIOSH = National Institute for Occupational Safety and Health  
NTP = National Toxicology Program  
OSHA = US Occupational Safety and Health Administration  
RTECS® = Registry of Toxic Effects of Chemical Substances

**References** CHEMINFO database. Canadian Centre for Occupational Health and Safety (CCOHS).  
HSDB® database. US National Library of Medicine. Available from Canadian Centre for Occupational Health and Safety (CCOHS). NIOSH Pocket Guide database. National Institute for Occupational Safety and Health. Available from Canadian Centre for Occupational Health and Safety (CCOHS). Registry of Toxic Effects of Chemical Substances (RTECS®) database. Dassault Systèmes/BIOVIA ("BIOVIA"). Available from Canadian Centre for Occupational Health and Safety (CCOHS).

**Disclaimer** To the best of our knowledge, the information herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

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