

# Beram / MACSEAL Joint and Crack Sealant

# **SECTION 1. IDENTIFICATION**

Product Identifier Beram / MACSEAL Joint and Crack Sealant

Other Means of Beram AR - MACSEAL AR, Beram 190 - MACSEAL 6690 - 1, Beram 195 - MACSEAL 6690 - 4 MOD, Beram 195 LM - MACSEAL 6690 - 4, Beram 3060 LM - MACSEAL 6690 - 4 MOD, Beram 195 LM - MACSEAL

190 PMA - MACSEAL 6690 - 1PM, Beram 190 PMA - MACSEAL 6690 - 2PM, MACSEAL

**BDM** 

Other Identification Beram Fiber - MACSEAL Fiber, Beram DF - MACSEAL DF, Beram PL - MACSEAL PL,

Beram PLG - MACSEAL PLW, Beram 195 HSP - MACSEAL 2 HSP, Beram XJB - MACSEAL XJB, MACSEAL MARS Fine, MACSEAL MARS Course, MACSEAL BDM, CrackMaster Supreme, CrackMaster Parking Lot Grade, CrackMaster 3405, CrackMaster PL, CrackMaster

1190, CrackMaster 1190 NR, CrackMaster 3405 NR, 3405 LM

**Recommended Use** Joint and Crack Sealant.

**Restrictions on Use** None known.

**Manufacturer/Supplier** McAsphalt Industries Ltd, 8800 Sheppard Ave East, Toronto, Ontario, M1B 5R4 **Identifier** 

**Emergency Phone No.** CANUTEC, (613) 996 - 6666, 24 hours

McAsphalt Industries Ltd., 1 - (800) - 268 - 4238, 8AM-5PM Monday to Friday

**SDS No.** 0165

# **SECTION 2. HAZARD IDENTIFICATION**

Classified according to Canada's Hazardous Products Regulations (WHMIS 2015).

#### Classification

Acute toxicity (Inhalation) - Category 4; Skin irritation - Category 3; Eye irritation - Category 2B; Carcinogenicity - Category 2

# **Label Elements**





# Warning

Harmful if swallowed, in contact with skin or if inhaled.

Causes skin and eye irritation.

Wear protective gloves/protective clothing/eye protection/face protection.

IF exposed or concerned: Get medical advice/attention.

### Other Hazards

Very hot! Can cause burns. Dark Black-Brown. characteristic asphaltic odour or "rotten egg" odour if H2S present, but odour is an unreliable warning, since it may deaden the sense of smell. Prolonged or repeated skin contact can cause drying of the skin which may produce irritation or dermatitis.

Product Identifier: Beram / MACSEAL Joint and Crack Sealant - Ver. 1 SDS No.: 0165

Date of Preparation: January 25, 2018

Date of Last Revision: February 05, 2018 Page 01 of 08

### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No.	%	Other Identifiers	Other Names
Asphalt (Bitumen)	8052-42-4	55-75		
Mineral oil, petroleum extracts, heavy paraffinic distillate solvent	6742-04-7	10-30		
Mineral Filler (Limestone)	1317-65-3	0- 40		
Poly(isoprene), homopolymer, liquid	9003-31-0	0-40		
Vulcanized Rubber Compound	N/A	0-30		
Styrene-butadiene copolymers	9003-55-8	0 -10		

#### **Notes**

NOTE: During storage or transit of hot asphalt, hydrogen sulphide may be generated.

# **SECTION 4. FIRST-AID MEASURES**

#### First-aid Measures

#### Inhalation

If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnnel. Move exposed person to fresh air. Seek Medical Help.

#### **Skin Contact**

Or 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 tourniquest 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, 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.

### **Eye Contact**

Rinse the contaminated eye(s) with lukewarm, gently flowing water for 5 minutes, while holding the eyelid(s) open. Immediately call a Poison Centre or doctor. Specific treatment is required.

### Ingestion

Rinse mouth with water. Never give anything by mouth if person is rapidly losing consciousness, or is unconscious or convulsing. Do not induce vomiting. Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconcious person. Get medical attention immediately.

#### **First-aid Comments**

If exposed or concerned, get medical advice or attention.

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

If inhaled: a single exposure to a high concentration can cause a long-lasting condition like asthma. If this occurs, many things like other chemicals or cold temperatures can easily irritate the airways. Symptoms may include shortness of breath, tightness in the chest and wheezing.

If on skin: can cause skin to be sensitive to sunlight. Symptoms may include redness, rash, swelling and itching. If swallowed: can burn the lips, tongue, throat and stomach.

If in eyes: may cause moderate to severe irritation. Symptoms include sore, red eyes, and tearing.

# **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.

Product Identifier: Beram / MACSEAL Joint and Crack Sealant - Ver. 1 SDS No.: 0165

Date of Preparation: January 25, 2018

Date of Last Revision: February 05, 2018 Page 02 of 08

### **SECTION 5. FIRE-FIGHTING MEASURES**

### **Extinguishing Media**

### Suitable Extinguishing Media

Use dry chemical, CO2, water spray (fog) or foam.

# **Unsuitable Extinguishing Media**

Make sure to avoid a heavy water stream as it may spread the fire.

### Specific Hazards Arising from the Product

#### Not flammable

Heating increases the release of toxic vapour, non combustible material but under fire conditions this product bay emit toxic and/or irritating fumes and gases including carbon monoxide and carbon dioxide.

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

Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece.

A full-body encapsulating chemical protective suit with positive pressure SCBA may be necessary.

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

# Personal Precautions, Protective Equipment, and Emergency Procedures

Keep unnecessary personnel away. Wear appropriate protective equipment and clothing during clean up. Ventilate close spaces before entering them. Do not touch or walk through a spilled material.

### **Environmental Precautions**

Prevent further leakage or spillage if safe to do so. Protect bodies of water, sewer or ground.

# Methods and Materials for Containment and Cleaning Up

Stop or reduce leak if safe to do so. Ventilate the area to prevent the gas from accumulating, especially in confined spaces. Contain and soak up spill with absorbent that does not react with spilled product. Place used absorbent into suitable, covered, labelled containers for disposal. Dike spilled product to prevent runoff. Remove or recover liquid using pumps or vacuum equipment. Contact emergency services and manufacturer/supplier for advice.

# **SECTION 7. HANDLING AND STORAGE**

#### **Precautions for Safe Handling**

This product is non-combustible. If heated, irritating vapours may be formed. Do not use in areas without adequate ventilation. Wash hands thoroughly after handling.

#### 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 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 unlablled containers. Use appropriate containment to avoid environmental contamination.

### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### **Control Parameters**

	ACGIH TLV®		OSHA PEL		AIHA WEEL	
Chemical Name	TWA	STEL	TWA	Ceiling	8-hr TWA	TWA
Asphalt (Bitumen)	0.5 mg/m3 (I) A4 BEI		Not established			
Mineral Filler (Limestone)	10 mg/m3 (R)		5 mg/m3 (R)			
Styrene-butadiene copolymers	3 mg/m3 (R)					

Product Identifier: Beram / MACSEAL Joint and Crack Sealant - Ver. 1 SDS No.: 0165

Date of Preparation: January 25, 2018

Date of Last Revision: February 05, 2018 Page 03 of 08

Poly(isoprene), homopolymer, liquid	20 ppm	40 ppm		

### **Appropriate Engineering Controls**

If this product contains ingredients with exposure limits, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure below any recommended or statutory limits.

#### **Individual Protection Measures**

#### **Eye/Face Protection**

Wear chemical safety goggles. Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists or dusts.

#### **Skin Protection**

Prevent skin contact. Wear chemical protective clothing e.g. gloves, aprons, boots. Wear a chemical splash suit and respiratory protection.

### **Respiratory Protection**

Do not breathe in this product. Use a proper fitted, air-purifying or air-fed respirator with an approved standard if a risk assessment indicates this is necessary. 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 cartridge or canister may be permissible under certain circumstances where airborne concentrations are expected to exceed exposure limits. Protection provided by air-purifying respirators is limited. Use a positive-pressure, air-supplied respirator if there is any potential for uncontrolled release, exposure levels are unknown, or any other circumstances where air-purifying respirators may not provide.

# **SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

# **Basic Physical and Chemical Properties**

**Appearance** Dark brown - black.

Odour Characteristic asphaltic odour or "rotten egg" odour if H2S present, but odour is

an unreliable warning, since it may deaden the sense of smell.

Odour Threshold Not available PH Not available

Melting Point/Freezing Point Not available (melting); Not available (freezing)

Initial Boiling Point/RangeNot availableFlash Point> 200 °C (392 °F)Evaporation RateNot availableFlammability (solid, gas)Not applicable

**Upper/Lower Flammability or** 

**Explosive Limit** 

Not available (upper); Not available (lower)

Vapour PressureNot availableVapour Density (air = 1)Not availableRelative Density (water = 1)Not available

**Solubility** Not available in water

Partition Coefficient, Not available

n-Octanol/Water (Log Kow)

Auto-ignition Temperature> 400 °CDecomposition TemperatureNot available

Viscosity Not available (kinematic); Not available (dynamic)

Other Information

Physical State Solid

# **SECTION 10. STABILITY AND REACTIVITY**

### Reactivity

Product Identifier: Beram / MACSEAL Joint and Crack Sealant - Ver. 1 SDS No.: 0165

Date of Preparation: January 25, 2018

Date of Last Revision: February 05, 2018 Page 04 of 08

Not reactive under normal conditions of use.

### **Chemical Stability**

Normally stable.

### **Possibility of Hazardous Reactions**

Hazardous polymerization does not occur.

#### **Conditions to Avoid**

Avoid high temperatures, open flames, sparks, welding, smoking and other ignition sources. Avoid static charge accumulation and discharge. Strong oxidizing agents.

#### **Incompatible Materials**

Oxidizing agents (e.g. peroxides).

## **Hazardous Decomposition Products**

Thermal decomposition:-Oxides of carbon. Sulphur compounds. Nitrogen compounds.

# **SECTION 11. TOXICOLOGICAL INFORMATION**

# **Likely Routes of Exposure**

Inhalation; skin contact; eye contact; ingestion.

# **Acute Toxicity**

Chemical Name	LC50	LD50 (oral)	LD50 (dermal)
Asphalt (Bitumen)		> 5000 mg/kg (rat)	> 2000 mg/kg (rabbit)
Poly(isoprene), homopolymer, liquid		Not available	Not available

#### 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.

Slightly irritating to the skin. Contact with hot material can cause thermal burns.

# Serious Eye Damage/Irritation

Irritant to eves.

Exposure to product vapours or liquid may cause irritation. Symptoms may include intolerance to light, redness, swelling, and tearing. Direct contact with hot material will cause burns.

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

# Inhalation

May cause irritation to the respiratory system.

A single exposure to a high concentration can cause a long-lasting condition like asthma. If this occurs, many things like other chemicals or cold temperatures can easily irritate the airways. Symptoms may include shortness of breath, tightness in the chest and wheezing.

### **Skin Absorption**

Can cause skin to be sensitive to sunlight. Symptoms may include redness, rash, swelling and itching.

#### Ingestion

Can burn the lips, tongue, throat and stomach. At ambient temperature there is no significant adverse effect expected. Irritation of mouth, throat, or gastrointestinal tract may occur.

#### **Aspiration Hazard**

Not known to be an aspiration hazard.

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

Not available.

# Respiratory and/or Skin Sensitization

Skin irritation, the symptoms may include redness and itching and swelling.

# Carcinogenicity

Product Identifier: Beram / MACSEAL Joint and Crack Sealant - Ver. 1 SDS No.: 0165

Date of Preparation: January 25, 2018

Date of Last Revision: February 05, 2018 Page 05 of 08

Chemical Name	IARC	ACGIH®	NTP	OSHA
Asphalt (Bitumen)	Group 2B	A4		
Poly(isoprene), homopolymer, liquid	Group 3			

Group 2B - Possibly carcinogenic to humans: occupational exposures to straight-run asphalt cement and its emissions during road paving a Group 2B ("possibly carcinogenic to humans") classification. This Group 2B classification puts road paving in the same category as numerous exposures, including cell phones and coffee. IARC: 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 asphalt and their emissions during mastic asphalt work are "possibly carcinogenic to humans" (Group 2B). IARC concluded that occupational exposure to straight-run asphalt and their emissions during paving operations are "possibly carcinogenic to humans" (Group 2B).

IARC: 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 asphalt and their emissions during mastic asphalt work are "possibly carcinogenic to humans" (Group 2B). IARC concluded that occupational exposure to straight-run asphalt and their emissions during paving operations are "possibly carcinogenic to humans" (Group 2B).

# **Reproductive Toxicity**

# **Development of Offspring**

Not available.

The material in general is not expected to have toxic reproductive effects.

# **Sexual Function and Fertility**

Not available.

No known significant effects or critical hazards.

### Effects on or via Lactation

Not known to cause effects on or via lactation.

# **Germ Cell Mutagenicity**

Not available.

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

#### Interactive Effects

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**

Not available.

### Persistence and Degradability

Not available.

#### **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**

Product Identifier: Beram / MACSEAL Joint and Crack Sealant - Ver. 1 SDS No.: 0165

Date of Preparation: January 25, 2018

Date of Last Revision: February 05, 2018 Page 06 of 08

The generation of waste should be avoided or minimized where ever possible. Significant quantities of waste product residue should not be disposed of via the foul sewer but processed in a suitable effluent treatment plan. Dispose of surplus and non-recyclable and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Disposal should be in accordance with applicable regional, national and local laws and regulations. Refer to Section 7: HANDLING AND STORAGE and sections \*: EXPOSURE CONTROL/PERSONAL PROTECTION for additional handling information and protection of employees.

# **SECTION 14. TRANSPORT INFORMATION**

Not regulated under Canadian TDG regulations. Not regulated under US DOT Regulations.

Special Precautions Not applicable

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)

All ingredients are listed on the DSL/NDSL. The componets of this product are in compliance with the chemical notification requirements of the NSN Regulation under CEPA, 1999.

**USA** 

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

The components of this product are in compliance with the chemical notification requirements of TSCA.

#### **SECTION 16. OTHER INFORMATION**

NFPA Rating Health - 2 Flammability - 0 Instability - 0

SDS Prepared By EPC & Risk Management Department

Phone No. 1 (416) 281 - 8181

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**Revision Indicators** Other Means of Identification; Jan 26 2018: MACSEAL BDM added

Other Means of Identification; Feb 5 2018: MACSEAL MASTIC replaced with MACSEAL

**MARS** 

**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.

Product Identifier: Beram / MACSEAL Joint and Crack Sealant - Ver. 1 SDS No.: 0165

Date of Preparation: January 25, 2018

Date of Last Revision: February 05, 2018 Page 07 of 08

Product Identifier: Beram / MACSEAL Joint and Crack Sealant - Ver. 1

Date of Preparation: January 25, 2018

Date of Last Revision: February 05, 2018 Page 08 of 08

SDS No.: 0165

