



# Rejuvenite B

## SECTION 1. IDENTIFICATION

<b>Product Identifier</b>	Rejuvenite B
<b>Other Means of Identification</b>	(i) Rejuvenite, (ii) Rej 700, (iii) Rejuvenite B
<b>Recommended Use</b>	Softening agent for asphalt reclaiming.
<b>Restrictions on Use</b>	None known.
<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

## SECTION 2. HAZARD IDENTIFICATION

### Label Elements

Warning

IF exposed or concerned: Get medical advice or attention.

### Other Hazards

May cause irritation to skin. Signs/symptoms may include localized redness, swelling, and itching.

## SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No.	%	Other Identifiers	Other Names
Modified Vegetable Oil	NA	40-70		
Water	7732-18-5	15-40		
Emulsifier	61790-12-3, 8050-09-7	1-5		
Styrene-butadiene copolymers	9003-55-8	0-6		

## 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 personnel.

#### Skin Contact

Rinse with lukewarm, gently flowing water for 5 minutes. Get medical advice or attention if you feel unwell or are concerned.

#### Eye Contact

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

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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.

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

If exposed or concerned, get medical advice or attention.

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

If swallowed:

Symptoms may include nausea, vomiting, stomach cramps and diarrhea.

#### **Immediate Medical Attention and Special Treatment**

##### **Special Instructions**

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

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

### **Extinguishing Media**

#### **Suitable Extinguishing Media**

Large fire: Carbon dioxide, dry chemical powder, appropriate foam, water spray or fog.

#### **Unsuitable Extinguishing Media**

None known.

### **Specific Hazards Arising from the Product**

Flammability of the product: Will burn on prolonged exposure to flame or high temperature.

Carbon oxides (CO, CO<sub>2</sub>), smoke and irritating vapours as products of incomplete combustion.

### **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.

Fire-fighters may enter the area if positive pressure SCBA and full Bunker Gear is worn. See Skin Protection in Section 8 (Exposure Controls/Personal Protection) for advice on suitable chemical protective materials.

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

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

Do not touch or walk through spilt material. Avoid breathing vapour or mist. Provide adequate ventilation. Put on appropriate personal protective equipment (see Section 8).

### **Environmental Precautions**

Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

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

Note: see section 1 for emergency contact information.

### **Other Information**

Contact supplier, local fire and emergency services for help. Report spills to local health, safety and environmental authorities, as required.

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

### **Precautions for Safe Handling**

It is good practice to: avoid breathing product; avoid skin and eye contact and wash hands after handling. Do NOT smoke in work areas. Do NOT eat, drink or store food in work areas. Remove contaminated clothing and protective equipment before entering eating areas or leaving work area. Wash hands thoroughly after handling this product and before eating, using the washroom or leaving work area. Properly dispose of any contaminated items, including shoes, that cannot be decontaminated. DO NOT re-use. See Section 13 (Disposal Considerations) of this safety data sheet.

### **Conditions for Safe Storage**

Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and

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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 unlabelled containers. Use appropriate containment to avoid environmental contamination.

## SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Control Parameters

Chemical Name	ACGIH TLV®		OSHA PEL		AIHA WEEL	
	TWA	STEL	TWA	Ceiling	8-hr TWA	TWA
Styrene-butadiene copolymers	3 mg/m3 (R)					
Modified Vegetable Oil	5 mg/m3					

### 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

If a risk assessment indicates that it is necessary to avoid exposure to liquid splashes, mists or dusts, then safety eyewear complying with an approved standard should be used.

#### Skin Protection

Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period.

Ensure that eyewash stations and safety showers are close to the workstation location.

If a risk assessment indicates it is necessary, chemical-resistant, imperious gloves complying with an approved standard should be worn at all times when handling chemical products. Suitable materials are: nitrile rubber.

#### Respiratory Protection

Not normally required if product is used as directed.

## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

### Basic Physical and Chemical Properties

<b>Appearance</b>	Light tan - brown oily liquid.
<b>Odour</b>	Not available
<b>Odour Threshold</b>	Not available
<b>pH</b>	~ 3 (estimated)
<b>Melting Point/Freezing Point</b>	Not available (melting); Not available (freezing)
<b>Initial Boiling Point/Range</b>	100 °C (212 °F) (estimated)
<b>Flash Point</b>	> 200 °C (392 °F) (closed cup)
<b>Evaporation Rate</b>	Not available
<b>Flammability (solid, gas)</b>	Not available
<b>Upper/Lower Flammability or Explosive Limit</b>	Not available (upper); Not available (lower)
<b>Vapour Pressure</b>	Not available
<b>Vapour Density (air = 1)</b>	Not available
<b>Relative Density (water = 1)</b>	Not available
<b>Solubility</b>	Insoluble in water; Not available (in other liquids)
<b>Partition Coefficient, n-Octanol/Water (Log Kow)</b>	Not available
<b>Auto-ignition Temperature</b>	Not available
<b>Decomposition Temperature</b>	Not available

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<b>Viscosity</b>	Not available (dynamic)
<b>Other Information</b>	
<b>Physical State</b>	Liquid
<b>Surface Tension</b>	Not available
<b>Electrical Conductivity</b>	Not available
<b>Vapour Pressure at 50 deg C</b>	Not available
<b>Saturated Vapour Concentration</b>	Not available

## SECTION 10. STABILITY AND REACTIVITY

### Reactivity

Not reactive under normal conditions of use.

### Chemical Stability

Stable under normal storage conditions.

### Conditions to Avoid

Under normal conditions of storage and use, hazardous polymerisation will not occur. Exposure to heat.

### Incompatible Materials

Reactive with oxidizing agents acids. Bases. Oxidizers.

Not corrosive to metals.

## SECTION 11. TOXICOLOGICAL INFORMATION

### Likely Routes of Exposure

No known significant effects or critical hazards. See toxicological information (Section 11).

### Acute Toxicity

Chemical Name	LC50	LD50 (oral)	LD50 (dermal)
Modified Vegetable Oil		> 5000 mg/kg (rat)	> 2000 mg/kg (rabbit)
Emulsifier		2500 mg/kg (rat)	

### Skin Corrosion/Irritation

May cause irritation to skin. Signs/symptoms may include localized redness, swelling, and itching. Hot liquid product may cause serious thermal burns on direct contact.

### Serious Eye Damage/Irritation

May cause mild irritation to eyes.

Hot liquid product may cause thermal burns. Slightly irritating to the eyes.

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

#### Inhalation

May be harmful based on information for closely related materials.

#### Skin Absorption

May be harmful based on information for closely related materials.

Skin to darken.

#### Ingestion

Harmful based on information for closely related materials.

Severe irritation or burns to the mouth, throat and stomach.

Harmful. Symptoms may include nausea, vomiting, stomach cramps and diarrhea.

### Aspiration Hazard

Not known to be an aspiration hazard.

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

Material in general is not expected to cause harm.

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No known significant effects or critical hazards.

### **Respiratory and/or Skin Sensitization**

Not a respiratory sensitizer.

### **Carcinogenicity**

<b>Chemical Name</b>	<b>IARC</b>	<b>ACGIH®</b>	<b>NTP</b>	<b>OSHA</b>
Emulsifier	Not Listed		Not Listed	Not Listed

An IARC working group has concluded that occupational exposures to straight-run bitumens and their emissions during road paving are 'possibly carcinogenic to humans' (Group 2B).

Key to Abbreviations

ACGIH® = American Conference of Governmental Industrial Hygienists. A3 = Animal carcinogen. IARC = International Agency for Research on Cancer. Group 2B = Possibly carcinogenic to humans. Group 3 = Not classifiable as to its carcinogenicity to humans. ACGIH® = American Conference of Governmental Industrial Hygienists. A4 = Not classifiable as a human carcinogen.

### **Reproductive Toxicity**

#### **Development of Offspring**

No information was located.

No known significant effects or critical hazards.

#### **Sexual Function and Fertility**

No information was located.

No known significant effects or critical hazards.

#### **Effects on or via Lactation**

Not known to cause effects on or via lactation.

### **Germ Cell Mutagenicity**

No information was located.

No known significant effects or critical hazards.

### **Interactive Effects**

No information was located.

## **SECTION 12. ECOLOGICAL INFORMATION**

No known significant effects or critical hazards.

### **Ecotoxicity**

Studies were not located.

### **Persistence and Degradability**

Not available.

### **Bioaccumulative Potential**

(Asphalt (Bitumen) ) this product and its degradation products are not known to bioaccumulate.

### **Mobility in Soil**

Studies are not available.

### **Other Adverse Effects**

There is no information available.

## **SECTION 13. DISPOSAL CONSIDERATIONS**

### **Disposal Methods**

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

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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 spilled 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.

**Environmental Hazards** Potential Marine Pollutant (FUEL OIL NO. 2)

**Special Precautions** Please note: For US Shipments Only: ELEVATED TEMPERATURE LIQUID, N.O.S., at or above 100 c and below its flash point, 9, UN3257, PGIII 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 all ingredients are listed on the DSL/NDSL.

#### USA

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

All ingredients are listed on the TSCA Inventory.

## SECTION 16. OTHER INFORMATION

**NFPA Rating** Health - 1 Flammability - 1 Instability - 0

**SDS Prepared By** Engineering and Risk Management Department

**Phone No.** 1-800-268-4238

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**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). Registry of Toxic Effects of Chemical Substances (RTECS®) database. Dassault Systèmes/BIOVIA ("BIOVIA"). 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).

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