

MATERIAL SAFETY DATA SHEET

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Production Facility:

HAMILTON 601 Burlington Street East Hamilton Ontario L8L 4J5

**THIS PRODUCT IS NOT SUBJECT TO THE CONTROLLED PRODUCTS OR
THE TRANSPORTATION DANGEROUS GOODS REGULATIONS**

SECTION 1 MATERIAL IDENTIFICATION

TRADE NAME: ZAVLAR™

CHEMICAL FAMILY: Water suspension of petroleum derived hydrocarbons (polymer modified emulsified asphalt) and inert fillers.

MATERIAL USE: Protective Coating

T.D.G. CLASSIFICATION: NON REGULATED

WHIMIS CLASSIFICATION: NON REGULATED

EMERGENCY TELEPHONE #: 1-866-979-0300

SECTION II HAZARDOUS INGREDIENTS

COMPONENT	CAS#	%(BY MASS)	LC50 (ppm) (rat inhal)	LD50 (mg/kg) (rat oral)
Complex mixture of bitumens	n/a	40-70	n/a	n/a
anionic surfactants	n/a	0.5-2.0	n/a	n/a
water	7732-18-5	30-60	n/a	n/a
Polymer dispersion		5-25	n/a	n/a

SECTION III PHYSICAL PROPERTIES

Odour and appearance: Brown liquid, slight resinous petroleum odour.

Odour threshold: n/a

Specific gravity: 1.00 (approx.).

Coefficient of water/oil distribution: n/a

Vapour pressure (mm Hg): 17 @20°C (water)

Boiling point: 100°C (water)

Freezing point: 0°C

pH: 7-13

Vapour density (air = 1): >1

Evaporation rate (nBuAcetate = 1): <1

Volatiles %: 30-60 (water)

Solubility in water: partially soluble

SECTION IV FIRE & EXPLOSION DATA

Means of extinction: n/a

Sensitivity to mechanical impact/static discharge: n/a

Flash point (method): n/a (non-combustible)

Upper flammable limits % : n/a

Lower flammable limits % : n/a

Autoignition temperature: n/a

Special fire fighting instructions: n/a

Unusual fire and explosion hazards: Product will not burn but may splatter if temperature exceeds the boiling point.

SECTION V REACTIVITY DATA

Chemical stability: Stable

Incompatible materials: n/a

Hazardous decomposition products: Avoid heating above 200°C. At elevated temperatures hazardous vapours can be released, including carbon monoxide, hydrogen chloride, organic acids and aldehydes.

Hazardous polymerization: Will not occur.

SECTION VI HEALTH INFORMATION

Exposure limit: n/a

Inhalation: n/a

Skin: adhesion

Eyes: adhesion, irritation.

Ingestion: Blockage of digestive and/or respiratory tract.

Chronic effects: n/a

EMERGENCY AND FIRST AID PROCEDURES

Inhalation: n/a

Skin: This is an alkaline product. If splashed on the skin immediately wash thoroughly with fresh water. If the product has dried on the skin massage the area with medical grade mineral oil, baby oil or edible oil, then wash with soap and water. If irritation persists seek medical attention..

Eyes: Flush thoroughly with fresh water for at least ten minutes. Seek medical attention.

Ingestion: DO NOT INDUCE VOMITING. Seek medical attention.

Notes to Physician: 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 provides a sterile covering over a burnt area. As healing takes place, the bitumen plaque will detach itself, usually after a few days. If solvent treatment is used, it should be followed by washing with soap and water, then the application of a proprietary refatting agent or skin cleansing cream. Only medically approved solvents may be used to remove bitumen from burns, as other solvents could cause further skin damage

SECTION VII SPILL PROCEDURES

In the event of a spill: Dike and contain, transfer to containers for recovery or disposal. Keep out of sewers.

Waste disposal method: Follow federal, provincial and local regulations regarding disposal.

SECTION VIII SPECIAL PROTECTION

Respiratory protection: n/a

Ventilation: n/a

Protective gloves: Recommended

Eye protection: safety glasses/splash goggles recommended

Other protective equipment: Long sleeves, loose clothing recommended.

SECTION IX SPECIAL PRECAUTIONS

Storage and handling conditions: Keep containers tightly closed when not in use. KEEP FROM FREEZING.

Special shipping information: Not regulated by the Transportation of Dangerous Goods Regulations.

Prepared by: **Liquid Rubber Industries Inc.**

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