

MSDS MATERIAL SAFETY DATA SHEET MINECOAT

According to Regulation (EC) 1907/2006

SECTION I MATERIAL IDENTIFICATION

TRADE NAME: LIQUID RUBBER® MINECOAT - MATERIAL USE: Protective Coating - EMERGENCY TEL +31 (0)297 587866 - CHEMICAL FAMILY: Water suspension of petroleum derived hydrocarbons (polymer modified emulsified asphalt) and inert fillers. - T.D.G. CLASSIFICATION: NON REGULATED - WHIMIS CLASSIFICATION: NON REGULATED

SECTION II HAZARDS IDENTIFICATION

Hazards: n/a

SECTION III COMPOSITION, INFORMATION ON INGREDIENTS

COMPONENT	CAS#	% (BY MASS)	LC50 (ppm)	LD50 (mg/kg)
			(rat inhal)	(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	n/a	5-25	n/a	n/a

SECTION IV 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.

SECTION V 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 - Auto-ignition 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 of water.

SECTION VI 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 VII 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.

SECTION VIII 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

SECTION IX PHYSICAL PROPERTIES

Odour and appearance: Brown liquid, slight resinous 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 %: 40-60 (water) - Solubility in water: partially soluble

SECTION X REACTIVITY DATA

Chemical stability: Stable - Incompatible materials: Will react with alkaline sensitive materials such as acids and certain metals. Contact with reactive metals such as aluminium or magnesium will result in the formation of explosive hydrogen gas. - 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 XI 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 XII ECOLOGICAL INFORMATION

Ecological information: Toxicity: n/a - Ecotoxicity effects: n/a

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SECTIE XIII DISPOSAL CONSIDERATIONS

Instructions for removal: Use soap and warm water to clean tools. Waste disposal method: Keep out of sewers. Dispose of in accordance with applicable legal provisions. Comply with federal, state or local regulations regarding disposal.

SECTIE XIV TRANSPORT INFORMATION

Transport information: No dangerous goods as defined by the transport regulations - ADR/RID, IMDG, ICAO/IATA-DGR. - VN-number: n.v.t. - Loadingname: n.v.t. - Transport hazard class(es): n.v.t. - Packing group: n.v.t. - Special precautions for users: n.v.t.

SECTIE XV REGULATORY INFORMATION

Regulatory information: n/a

SECTIE XVI PREPARED BY

LRE Coatings B.V. – Preparation date: 1-jan-2015

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MineCoat

METAL CORROSION PROTECTION

MineCoat has been Specifically engineered to be Safe, Environmentally Friendly and Highly Effective for Today's most demanding Mining Applications. MineCoat can be applied to Equipment, Machinery, Structural Steel and more. Ask about the supplementary FireSafe advantages when accompanying MineCoat.

- FREE OF FLAMMABLE SOLVENTS
- NON-TOXIC
- ODOURLESS AND WATER BASED
- VOC FREE

FEATURES

MineCoat is a dual component system that is applied during a single step process, through a specifically designed spray applicator. The innovative features of MineCoat provide a quick setting coating membrane that is solvent-free and has excellent Strength, Elasticity, Corrosion Control, Abrasion Resistance and Superior Adhesion properties.

CAUTION

For industrial use only. Keep out of the reach of children. Avoid storage below 5°C. Please consult the Material Safety Data Sheet before using MineCoat

PHYSICAL PROPERTIES (Liquid)	
PROPERTY	TYPICAL RESULTS
Colour	Brown to black
Specific gravity (liquid) g/cm3	Approx. 1.0
Odour	None
Volatile Organic Compound	Contains no solvents
% Solids (wt)	53 - 58
Viscosity, SSF @ 25°C, seconds	15-20
pH	10 - 12

COVERAGE			
Cured Membrane		Coverage	
Mils	mm	ft ² /l	m ² /l
40	1.00	7.93	0.74
80	2.00	3.96	0.37
120	3.00	2.64	0.24

PERFORMANCE DATA (Cured membrane)	
PROPERTY	TYPICAL RESULTS
Colour	Black
Specific gravity, g/cm3	Approx. 1.0
Chemical resistance ASTM G 20	Resistant to most inorganic solutions. Not recommended for gasoline or other petroleum products. Consult Chemical Resistance chart for further information.
Biological resistance ASTM E 154, ASTM 0412	Passed (> 90% original value)
Impact resistance CSB37 -GP-500 23°C, in-lbs	Passed (168)
Tensile strength ASTM 0412, psi	90
Elongation, %	850
Adhesion to Concrete Strength, ASTM C 907 (amended to tensile adhesion), psi	111
Puncture resistance CGSB 37-GP-56, 24 hr @ 29N, -5oC	Passed (No perforations)
Accelerated weathering, ASTM G 155, D 412	Passed (No deterioration of film)
Hardness, Durometer Type 00	85-87
Underwriters Laboratories	Class A Fire Rating (call for details)
National Sanitation Foundation	Potable water approved

TECHNICAL SERVICE

+31 (0)297 587866