

Material Safety Data Sheet

Emulsion Bitumen MSDS

Section 1: Chemical Product and Company Identification

Product Name: K1-40/K1-60/CRS-1/CRS-2/CRS-1P/CRS-1H/CRS- 1L/CRS-1HP/CRS-1HL/CMS-1/CMS-1H/CMS-1P/CMS-1L/CMS-1HP/CMS-1HL/CMS-2/CMS-2H/CMS-2L/CMS-2P/CMS-2HP/CMS-2HL/CSS-1/CSS 1H/CSS-1P/CSS-1L/CSS-1HP/CSS-1HL Bitumen Emulsion

Product Description: Cationic Bitumen in water emulsion with/without polymer additive for use in road and building maintenance and construction: tack coat/prime coat/cold mix/chip seal/slurry seal/sand seal/micro surfacing/water proofing process

HS Code: 27150090

Details of the supplier of the safety data sheet:

Supplier: Infinity Galaxy

Address: Unit. 1623, Floor 16, ParkLane Tower, Business Bay, Dubai, UAE

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Section 2: Composition and Information on Ingredients

bitumen emulsion comprises mainly of bitumen emulsified in water, emulsifying agent and additives are also present in small quantities.

Chemical name	EC No	Classification	Risk phrases	Concentration
Bitumen	232-490-9	Not classified	Not classified	30 – 70 %
Water	231-791-2	Not classified	Not classified	30 – 70 %
Polymer Additive	Trade Secret	Not classified	Not classified	0 – 10
Oleydiamine ethoxylate	CAS 68442-23-9	Xn, C, N	R22 Harmful is swallowed R34 Causes burns R50 Very toxic to aquatic organisms	< 0.5 %
Hydrochloric acid (as dilute aqueous solution)	231-595-7	Xi	R36/37/38 Irritating eyes, respiratory system and skin	< 0.5 %

Section 3: Hazards Identification

The following classification and labelling is required by the chemicals (Hazard Information and packing for supply) Regulations:

Symbol:	None
Indication of danger:	None
Classification:	None
Risk Phrases:	None
Safety phrases:	S61 Avoid release the environment – Refer to special instructions / safety Data Sheet

Section 4: First Aid Measures

Eye Contact: Irrigate thoroughly with water, seek medical advice

Skin Contact: Wash with water, if irritation result / persists seek medical advice

Ingestion: Do not induce vomiting, give water to drink, seek medical advice

HOT EMULSION: rinse affected area with cold water, DO NOT REMOVE BITUMEN, seek medical advice

Section 5: Fire and Explosion Data

Non-flammable water based emulsion

Dried film supports combustion giving off complex mixture of noxious gases and airborne particles

Use carbon dioxide, dry power of foam extinguishers

Section 6: Accidental Release Measures

Contain/absorb spillage with proprietary absorbent material, sand or earth

Transfer to waste site in sealed container

Prevent entry into water courses or drains

Inform authorities if material enters water courses or drains

Section 7: Handling and Storage

Storage of bitumen emulsion should be in accordance with the Oil Storage Regulations.

- Drums:** Within an impermeable bund / drip tray with a capacity of not less than 110% of one drum, or a capacity of not less than 25% of the total of more than one drum, whichever is the greater
- Storage tank:** Within an impermeable bund / drip tray with a capacity of not less than 110% of the volume of the storage tank

Protect from freezing conditions

Roll / invert drums before use and at regular intervals to prevent settlement

Bulk stores should be circulated / agitated before use

Emulsion must not be heated above 90°C (boiling / frothing hazard)

Section 8: Exposure Controls/Personal Protection

Workplace exposure limits are listed in EH40 for bitumen emulsion:

Bitumen (asphalt, petroleum fumes and hydrogen sulfide); hydrochloric acid (gas, aerosol mists only) Water rubber / PVC gloves, eye protection and protective clothing, use barrier cream on hands

Section 9: Physical and Chemical Properties

- Appearance:** Brown/black liquid
- Destiny:** 0.95 – 1.05
- Odour:** characteristic
- Flammability:** Non-flammable, dried film will support combustion
- Flash point:** n/a
- Boiling point:** ~ 100°C
- Acidity/alkalinity:** pH 2 to 6

Section 10: Stability and Reactivity Data

Stable under normal conditions of temperature and pressure but to prevent damage to emulsion:

Conditions to avoid: Do not heat above 90°C as vigorous boiling / frothing will result. Do not store below 2°C to avoid freezing

Materials to avoid: Alkalis (will cause emulsion to coagulate)

Section 11: Toxicological Information

Inhalation: Not considered hazardous

Skin contact: Due to small quantities of emulsifying agents and emulsion pH, frequent of prolonged skin contact cause skin irritation or sensitization can cause scalding

Eye contact: May irritated eyes

Ingestion: Not considered likely – no data available

Section 12: Ecological Information

Bitumen emulsion contain components classified dangerous for the environment: N, R50 very toxic to aquatic organisms.

Air: Water component will evaporate to air leaving a residual solid layer of bituminous binder

Water: Emulsion will disperse in water and bituminous binder components will persist in environment for considerable period of time.

Soil: Will form a residual layer of bituminous binder on adsorption / evaporation of water component

Section 13: Disposal Considerations

Bitumen emulsion should be disposed of by a registered waste disposal contractor using EWC code 08 04 16.

Section 14: Transport Information

Bitumen emulsion is not classified as hazardous for transport by road bulk road tanker supplied are to be labelled in accordance with Chemical Industries Association Black and White marking scheme.

Section 15: Other Regulatory Information

Users are advised to refer to amongst others, the following pieces of legislation, for further information:

DPD 1999 / 45 / EC

REACH EC 1907 / 2006

CLP EC 1272 / 2008

The chemicals (Hazard information and packing for supply) Regulation 2009 Control of substances Hazardous to Health Regulation 2002

EH40 (UK) Workplace Exposure Limits 2005 (Amended 2011) Control of Pollution (Oil Storage) Regulation 2001

Environmental Permitting Regulation 2010

The Carriage of Dangerous Goods by Road Regulation (ADR) 2013



Section 16: Other Information

References: Not available.

Other Special Considerations: Not available.

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Infinity Galaxy