



SAFETY DATA SHEET

A. Identification of the Substance / Preparation and of the Company Undertaking

Product Name: SpEC Bitprufe No.3
Company: Speciality Engineering Chemicals
Address: P.O Box No. 61347, Dubai, U.A.E
Telephone: +971-4-8836662 Facsimile: +971-4-8837696
E-mail: info@spec.ae Web site: www.spec.ws

B. Composition / Information on Ingredients

<u>Chemical Name</u>	<u>Amount</u>	<u>CAS Number</u>
Asphalt (Petroleum)	40.0 – 70.0%	8052-42-4
Water	<50.0%	7732-18-5
Hydrogen Sulfide	<0.5%	7783-06-4
Sodium Hydroxide	<0.5%	1310-73-2
Confidential Ingredient A	<2.0%	Trade Secret
Confidential Ingredient B	<4.0%	Trade Secret
Confidential Ingredient C	<4.0%	Trade Secret

(See section H for Exposure Guidelines)
(See section 15 for Regulatory Information)

Composition Comments: Concentration values are typical and may vary. Although specific identities of some components are being withheld as trade secrets, known pertinent hazard are addressed in this MSDS. Hydrogen sulfide may be present as a by-product of asphalt processing.

Hazard Disclosure: This product contains hazardous materials as defined by OSHA Hazard Communication Standard 29 CFR 1910 1200. As defined under SARA 312 and 312, this product contains materials that are hazards.

Miscellaneous: This material does not have established exposure limits.

C. Hazards Identification

Emergency Overview

Caution: May cause skin and eye irritation. Dilute with water.
For hot product, immediately immerse in or flush the affected area with large amounts of cold water to dissipate heat.
Do not allow material to completely dry.
Fumes from heated material may be irritating.
Aspiration hazard if swallowed can cause lung damage.

HMIS Rating:	Health	1
	Flammability	0
	Reactivity	0
	Personal Protection Index	0
NFPA Rating:	Health	1
	Flammability	0
	Reactivity	0
	Special Hazard	None

Potential Health Effects

Eyes:	Direct contact may cause eye irritation. Exposure to vapors, fumes, or mists may cause irritation. Contact with heated material may cause eye burns and permanent tissue damage.
Skin:	Avoid prolonged or repeated contact with skin. Prolonged or repeated contact may irritate the skin and cause a skin rash (dermatitis).
Inhalation:	Avoid breathing vapours or mist. Prolonged or excessive inhalation may cause respiratory tract irritation. Hydrogen sulfide can cause respiratory paralysis and death depending on the concentration and duration of exposure.
Ingestion:	Substance may be harmful if swallowed. Irritating to mouth, throat and stomach.
Signs and Symptoms of Exposure:	Exposure to hot material may cause thermal burns. Vapours may have an offensive odour which may cause headaches, nausea and vomiting. Symptoms of overexposure include fatigue, tearing of eyes, and burning sensation in the throat, cough, and chest discomfort and skin irritation.
Chronic Effects:	No known hazards in normal industrial use.
Carcinogenicity:	IARC has determined that there is inadequate evidence that asphalt is carcinogenic to humans. While brief or intermittent skin contact with this product is not expected to cause harm, those workers who do not practice good personal hygiene and who are exposed repeatedly via skin contact may be at risk.
Medical Conditions Aggravated by Exposure:	Disorders of the kidney, liver, skin and respiratory system.

D. First Aid Measures

Eyes:	Hold eyelids apart and flush eyes with plenty of water for at least 15 minutes. Get medical attention if irritation develops or persists. Burns due to contact with heated material require immediate medical attention.
Skin:	Wash skin with soap and water. Wear protective gloves to minimize skin contamination. For hot material exposure, do not try to remove solidified material from the skin. Do not try to dissolve with solvents or thinners.
Inhalation:	At elevated temperatures may cause irritation of the eyes and respiratory tract. Although this product is not known to cause respiratory problems, if breathing is difficult, safely remove victim to fresh air and provide oxygen. Get immediate medical attention.
Ingestion:	Get immediate medical attention. Do not induce vomiting due to danger of aspirating liquid into lungs. Gastric lavage may be required.
Statement of Practical Treatments:	Get prompt medical attention. Dilute with water. If solidified, treat as neat asphalt.

E. Fire Fighting Measures

Flammable Properties:	COC Flash Point – None TCC Flash Point – None Auto Ignition Temperature – N/A
Flammable Limits in Air:	LEL – N/A UEL – N/A
Flammable Properties:	Product is an aqueous solution. Heated product may produce hazardous fumes, decomposition products or residues. Small quantities of hydrogen sulfide may be released upon heating.
Extinguishing Media:	Use alcohol foam, carbon dioxide, or water spray when fighting fires involving this material. Exercise care when using water as contact with hot asphalt products may produce steam and violent foaming.
Fire Fighting Instructions:	As in any fire, wear self-contained breathing apparatus pressure-demand MSHA/NIOSH (approved or equivalent) and full protective gear. Decomposition may produce fumes, smoke, oxides of carbon and hydrocarbons and possible small quantities of hydrogen sulfide.
Combustion Product:	Avoid breathing vapors from heated material. Combustion may produce CO, NOx, SOx and reactive hydrocarbons.

F. Accidental Release Measures

Safeguards (Personnel):	Observe precautions in Protective Equipment section.
Initial Containment:	Clean-up spills immediately, observing precautions in Protective Equipment section. Contained spilled liquid with sand or earth.
Large Spills Procedure:	Stop the source of the leak or release. Clean-up release as soon as possible, observing precautions in Exposure Controls/Personal Protection. Contain liquid to prevent further contamination of soil, surface water or groundwater. Large spillage should be dammed-off and pumped into containers.
Small Spills Procedure:	Absorb spills with inert material.

G. Handling and Storage

Shelf Life (in original, sealed containers):	1 day @ 82°C
Handling:	Use protective clothing impervious to this material.
Storage:	Do not store at temperature above 82°C.

H. Exposure Controls / Personal Protection

Engineering Controls:	Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower.
Eyes/Face Protection:	Where contact with this material is likely, eye protection is recommended.
Skin Protection:	Selection of specific items such as gloves, boots, apron or full body suit will depend on operation.
Respiratory Protection:	When there is potential for airborne exposures in excess of applicable limits, wear NIOSH/MSHA approved respiratory protection.

Exposure Guidelines

Hydrogen Sulfide:	OSHA TWA – 10 ppm, 14 mg/m ³ OSHA STEL – 15 ppm
Sodium Hydroxide:	OSHA PEL – 2 mg/m ³ OSHA Ceiling Limit – 2 mg/m ³

I. Physical and Chemical Properties

Form:	Liquid
Colour:	Brown to black
Odour:	Asphalt odour
Boiling Point:	100 C @ 760 mm Hg
Vapour Pressure:	Same as water mm Hg @ 21 C
Vapour Density:	Same as water (Air – 1)
Solubility in Water:	Dispersible
Specific Gravity:	1.0 – 1.1 (water – 1)
Melting/Freezing Point:	0 C
pH:	8 – 11
% Volatiles:	<40% @ 21 C @ 760 mm Hg
Volatile Organic Compounds(VOC):	<2%

J. Stability and Reactivity

Stability:	This compound is stable at ambient conditions.
Polymerization:	Hazardous polymerization will not occur.
Incompatibility with Other Materials:	Avoid contact with strong oxidizing agents.
Decomposition:	Decomposition will not occur if handled and stored properly.
Conditions to Avoid:	Avoid extreme temperatures.

K. Toxicological Information

This material or all of its components are listed on the Inventory of Existing Chemical Substances under the Toxic Substance Control Act (TSCA).

L. Ecological Information

Environmental Hazards:	This material should be prevented from uncontrolled applications to soil or earth. This material is water pollutant and should be prevented from entering storm water and sewage drainage systems and bodies of water.
------------------------	--

M. Disposal Considerations

Waste Disposal: Treat or dispose of waste material in accordance with all local, state/provincial, and national requirements. Avoid disposal into waste water treatment facilities.

Contaminated Materials: Treat as product waste.

Container Disposal: Un-cleaned empty containers should be disposed of in the same manner as the contents.

N. Transport Information

Product Label: SpEC Bitprufe No.3

D.O.T Shipping Name: Non Regulated, Water Based Asphalt Emulsion

D.O.T Hazard Class: Non-hazardous

O. Regulatory Information

EEC Symbols and Indications of Danger – Irritant (Xi)

R-Phrases: R36/37/38 – irritating to eyes, respiratory system, and skin.

WHMIS Hazard Symbols: None

CERCLA Hazardous Substances: Hydrogen Sulfide (7782-06-4) – RQ100 lb
Sodium Hydroxide (1310-73-2) RQ 1000 lb

RCRA Hazardous Substances: Hydrogen Sulfide (7783-06-4) RCRA Code – U135

Title V: Hydrogen Sulfide (7783-06-4)

SC Toxic Air Pollutants List: Hydrogen Sulfide (7783-06-4)
Sodium Hydroxide (1310-73-2)

P. Other Information

Reason for Issue: Update

Approval Date: August 2, 2011

Supersede Date: July 6, 2011

*This information is furnished without warranty, expressed or implied, except that it is accurate to the best knowledge of Speciality Engineering Chemicals (SpEC) based on data currently available. The data on this sheet are provided solely for the purpose of hazard communication and are related only to the specific material designated herein. SpEC assume no legal responsibility for use or reliance upon these data.