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MATERIAL SAFETY DATA SHEET

PRODUCT

BIO TA

1. DESCRIPTION / PROPERTIES (nature, reactivity):

A harmless blend of micro-organisms and biodegradable surfactants, designed to emulsify and biodegrade petroleum products absorbed on concrete, asphalt, rock and soil.

2. COMPOSITION / INFORMATION ON INGREDIENTS

Non pathogenic organisms – Class 1 (European Federation of BioTechnology)

<u>HAZARDOUS COMPONENTS</u>	<u>CONCENTRATION</u>	<u>HAZARD</u>	<u>RISK PHRASES</u>	<u>OES</u>
Sodium metasilicate CAS 6834-92-0	5 – 10%	C	R34, 37	-
Urea CAS 57-13-6	0 – 5%	Xi	R36/37/38	-

3. HAZARD IDENTIFICATION

- Fire/Explosion Hazard (stability, flammability, combustion products):**
Not classified as flammable or combustible material. Aqueous suspension of natural materials.
- Health Hazard (inhalation, ingestion, contact with skin or eyes):**
Irritating to skin and eyes. As with all surface-active chemicals, care should be taken to avoid prolonged skin contact. Low risk from inhalation. Low order of acute oral toxicity but do not ingest.
- Environmental Hazard:**
Not classified as hazardous to the environment.

4. FIRST AID MEASURES

- INHALATION** - Very low risk in normal usage since product is non-volatile. In cases of respiratory distress, remove patient to fresh air, rest and keep warm.
- SKIN CONTACT** - Avoid unnecessary contact and keep away from broken skin or open wounds. Wash thoroughly all affected areas with soap and water. Remove contaminated clothing and laundry before re-use. Wash hands before eating or drinking.
- EYE CONTACT** - Irrigate with plenty of clean running water. Seek medical attention if irritation persists.
- INGESTION** - Do not swallow, rinse out mouth with water. Do not induce vomiting. If swallowed in quantity seek medical attention as a precautionary measure. Material may cause stomach disorder. Irritation of the mouth, pharynx oesophagus and stomach can develop following significant ingestion.

5. FIRE FIGHTING MEASURES

Suitable extinguishing media:

Since the product is not combustible or flammable, if involved in a fire, use extinguishing media appropriate to the source of the fire.

Protection for fire fighters:

Wear self-contained breathing apparatus. Wear protective clothing.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions:

Mark out contaminated area with signs and prevent access to unauthorised personnel.

Environmental Precautions:

Product is not environmentally hazardous, on the contrary it favours digestion of oil and greases in sewers and waste water treatment facilities.

Clean up Procedures:

Disperse spillages with large excess of water.

7. HANDLING AND STORAGE

Handling:

After handling wash hands with soap and water.

Storage:

May be stored for periods over six months in plastic containers as supplied. Avoid temperatures above 45 °C and protect from frost.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering Controls: Provide eyewash station

Personal Protection:

Hand: Use protective gloves made of neoprene or nitrile.

Eyes: Wear safety glasses.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State:	Liquid.
Appearance:	Cream to white liquid.
pH Value:	Aqueous suspension 10.0 - 10.9
Bulk Density:	Approximately 1.0
Solubility in Water:	Miscible.
Flash Point:	Not applicable.

10. STABILITY AND REACTIVITY

Stability: Stable.

Materials to avoid: Avoid contact with strong oxidisers. Strong acids or alkalis may render the product inactive.

Hazardous decomposition products:

None known

11. TOXICOLOGICAL INFORMATION

Health Effects

Respiratory: Not likely to occur.

Skin: Irritating to skin.

Eyes: Irritating to eyes.

Ingestion: Low acute toxicity. May cause irritation to mucous membranes in mouth, throat, stomach and intestinal canal. Contains non-pathogenic bacterial cultures.

12. ECOLOGICAL INFORMATION

Degradability

Degradability:	Biodegradable:	COD 8300mgsL ⁻¹
	BOD (5 day) 11600mgsL ⁻¹	(71.6%)

Bioaccumulation:

No bioaccumulation is expected. The product is biodegradable and water-soluble.

13. DISPOSAL CONSIDERATION

Disposal methods: Disperse small spillages with large excess of water. Return unwanted material to the supplier.

14. TRANSPORT INFORMATION

Not classified as dangerous for transport.

15. REGULATORY INFORMATION



Xi Irritant

R36/38 Irritating to skin and eyes

S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S28 After contact with skin, wash immediately with plenty of water

S36 Wear suitable protective clothing.

S37 Wear suitable gloves.

S23 Do not breathe vapour/spray (spray coat method).

Regulatory Information

UK Regulatory References: The Chemicals (Hazard Information and Packaging for Supply) Regulations 2002.

EH40/2002: Occupational Exposure Limits 2002.

EC Directives: Dangerous Preparations Directive (1999/45/EC).
Safety Data Sheets Directive (2001/58/EC).

Approved Code of Practice: The Compilation of Safety Data Sheets.

16. OTHER INFORMATION

PLEASE NOTE:

The above information is based on the present state of our knowledge at the time of publication. It is given in good faith, no warranty is implied with respect to quality or specification of product. The user must satisfy himself that the product is entirely suitable.