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MATERIAL SAFETY DATA SHEET

PRODUCT

OT8

1. DESCRIPTION / PROPERTIES (nature, reactivity):

A unique biological cleaner designed to remove residues of oils, greases and other hydrocarbon products by enhanced bacterial degradation. Aqueous suspension of selected natural bacteria, nutrients and cleaning agents. Cleans off hydrocarbon residues by bacterial oxidation to carbon dioxide and water, with no adverse environmental impact or harmful residues. Application rate is approximately 0.5 – 2.5 square metres per litre depending on surface porosity.

2. COMPOSITION / INFORMATION ON INGREDIENTS

HAZARDOUS COMPONENT	CAS NO	EINECS	% CONCENTRATION	HAZARD	RISK PHRASES	OES
Orange terpene	8028-48-6	232-433-8	10 → 30%	X _n	R10,38,65,52/53	-
Dipropylene glycol mono methyl ether	34590-94-8	252-104-2	0 → 5%	-		OES
Isopropylamine dodecyl benzene sulphonate	26264-05-1	247-556-2	5 → 10%	X _i	R41, 38	-
Alcohol ethoxylate	*	*	0 → 5%	X _n	R22, 41	-

* Proprietary status pending

3. HAZARD IDENTIFICATION

- a) **Fire/Explosion Hazard (stability, flammability, combustion products):**
 Product is not classified as combustible or flammable.
- b) **Health Hazard (inhalation, ingestion, contact with skin or eyes):**
 Irritating to skin and eyes. Avoid contact with skin and in particular, with the eyes. Low risk from inhalation but avoid excessive inhalation of vapour e.g. on heating etc. Low order of acute oral toxicity but do not ingest.
- c) **Environmental Hazard:**
 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

4. FIRST AID MEASURES

- INHALATION** - Low risk in normal usage. Remove to fresh air. Rest and keep warm. If symptoms of distress persist seek medical attention.
- SKIN CONTACT** - Wash affected area thoroughly with clean water. Remove contaminated clothing and launder before re-use.
- EYE CONTACT** - Irrigate with plenty of clean water. Obtain medical advice.
- INGESTION** - Do not swallow, wash out mouth with water. If swallowed drink water and obtain medical attention. Do not induce vomiting.

5. FIRE FIGHTING MEASURES

Suitable extinguishing media:

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:

Prevent discharge of large quantities to drain or water courses.

Clean up Procedures:

Disperse small spillages with large excess of water. Large spillages - contain, absorb and pick up, place in sealed containers for disposal via licensed contractor. Wash down traces with excess of water.

7. HANDLING AND STORAGE

Handling:

After handling wash hands and face 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

OES (2-methoxymethylethoxy)propanol 8hr TWA 50ppm / 308mg/m³ (EH40 2002)

Under normal conditions of use this limit is unlikely to be exceeded.

Engineering Controls: Provide eyewash station. Ensure good natural ventilation.

Personal Protection: **Hand:** Use protective gloves made of neoprene or nitrile.

Eyes: Wear safety glasses.

9. PHYSICAL AND CHEMICAL PROPERTIES

Density at 20°C:	0.93 – 0.95
Vapour Pressure at 20°C:	Essentially Water Vapour
Solubility in Water:	Disperses
pH:	7.0 - 7.5
Flash Point:	N/A

10. STABILITY AND REACTIVITY

Stability:	Stable.
Materials to avoid:	No known adverse reactions.
Hazardous decomposition products:	No typical hazardous decomposition products known.

11. TOXICOLOGICAL INFORMATION

Health Effects

Respiratory:	Not likely to occur.
Skin:	Irritating to skin on prolonged or repeated skin contact.
Eyes:	Irritating to eyes.
Ingestion:	Low acute toxicity. May cause irritation to mucous membranes in mouth, throat, stomach and intestinal canal.

Toxicological Data

For individual components:

Component	Acute Toxicity
Dipropylene glycol mono methyl ether	LD50 oral (rat): 5000mg/kg
Orange terpenes	LD50 oral (rat): 4400mg/kg
Isopropylamine dodecyl benzene sulphonate	LD50 oral (rat): >2000mg/kg
Alcohol ethoxylate	Oral: 200< LD50<2000mg./kg Dermal: LD50>2000mg/kg Inhalation: LC50>5mg/L

12. ECOLOGICAL INFORMATION

Ecotoxicity

For individual components:

Component	Acute Toxicity
Orange terpenes	EC50 Daphnia magna 48h 12.3mg/L
Alcohol ethoxylate	Fish: 1 < LC50 < 10mg./L Daphnia: 1 < LC50 < 10mg./L Algae: 1 < LC50 < 10mg./L

Degradability:

All components are readily biodegradable.

Bioaccumulation:

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

13. DISPOSAL CONSIDERATION

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

14. TRANSPORT INFORMATION

Not classified as hazardous for transport.

15. REGULATORY INFORMATION



Irritant Xi

R36/38 Irritating to skin and eyes.

R52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

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

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.