

**OIL TECHNICS LIMITED**

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MATERIAL SAFETY DATA SHEET
PRODUCT
SOBO LF**1. DESCRIPTION / PROPERTIES (nature, reactivity):**

An inhibited non flammable low foaming aqueous cleaning agent designed for the removal of oil grease and soil in the engineering industry where high pressure spray washing techniques are used.

Recommended dilution range 1-5% depending upon application and degree of soiling at temperatures up to 85°C. Inhibited to prevent flash corrosion of ferrous materials.

2. COMPOSITION / INFORMATION ON INGREDIENTS

HAZARDOUS COMPONENT	CAS NO	EINECS	% CONCENTRATION	HAZARD	RISK PHRASES	WEL
Dipropylene glycol mono methyl ether	34590-94-8	252-104-2	0 → 5%	-		WEL
Tetra potassium pyrophosphate	7320-34-5	230-785-7	0 → 5%	X _i	R36	-
Monoethanolamine	141-43-5	205-483-4	0 → 5%	X _n	R20/21/22, 34	WEL
Orange terpenes	8028-48-6	232-433-8	0 → 5%	X _n	R10,R38,65, 52/53	-
Alcohol Ethoxylate	-	-	5 → 10%	X _n	R41	-

3. HAZARDS IDENTIFICATION**a) Fire/Explosion Hazard (stability, flammability, combustion products):**

Not classified as flammable or combustible (Material is water based).

b) Health Hazard (inhalation, ingestion, contact with skin or eyes):

Irritating to eyes. May cause irritation on prolonged or repeated skin contact. As with all surface-active chemicals, care should be taken to avoid prolonged skin contact. The product is non-volatile and aqueous based so that inhalation risk is minimal.

c) Environmental Hazard:

Not classified as hazardous to the environment.

4. FIRST AID MEASURES

INHALATION - Low risk in normal usage. Remove to fresh air. Rest and keep warm.

SKIN CONTACT - Wash thoroughly with water. Remove contaminated clothing and launder before reuse.

EYE CONTACT - Irrigate with copious supply of clean water. Obtain medical attention.

INGESTION - Do not swallow, rinse mouth with water. If swallowed, drink water. Obtain prompt medical attention.

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:

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:

Does not require any specific measures.

Storage:

May be stored for periods over six months in plastic containers as supplied.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Component Exposure Limits:

Component Name	Concentration in preparation	8 hour exposure limit	Short term exposure limit
(2-Methoxymethylethoxy) propanol	0 → 5%	50ppm / 308mg/m ³	6ppm / 15mg/m ³
2-Aminoethanol	0 → 3%	3ppm / 7.6mg/m ³	

References: EH40/2005 Workplace Exposure Limits 2005

In normal usage of this product, respiratory protection is unlikely to be required.

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

Density at 20°C	:	1.03
Vapour Pressure at 20°C	:	Essentially water vapour
Solubility in water at 20°C	:	Complete
pH Value	:	10.5 – 11.5
Flash Point	:	None measurable

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

Respiratory:	Not likely to occur (material is aqueous based).
Skin:	May cause irritation 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
Tetrapotassium pyrophosphate	LD50 oral (rat): >2000mg/kg
Monoethanolamine	LD50 oral (rat): 1720mg/kg
Dipropylene glycol mono methyl ether	LD50 oral (rat): 5000mg/kg
Orange terpenes	LD50 oral (rat) 4400mg/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: 12.3mg/L
Alcohol ethoxylate	Fish: 1< LC50<10mg./L Daphnia: 1< LC50<10mg./L Algae: 1< LC50<10mg./L

Degradability:

Degradability (5% solution)	Biodegradable	COD	135,000mg.l ⁻¹
		BOD(5 day)	96,800mg.l ⁻¹ (71.7%)

Bioaccumulation:

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

13. DISPOSAL CONSIDERATION

Disposal Methods:

Dispose of in accordance with local authority requirements.

14. TRANSPORT INFORMATION

Not classified as hazardous for transportation purposes.

15. REGULATORY INFORMATION

Xi Irritant

R36 Irritating to eyes

S26 In case of contact with 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.
EC Directives:	EH40/2005: Workplace Exposure Limits 2005. 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.

Signature: _____

Date: 12th April 2007