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

Water soluble degreaser and cleaner concentrate containing surface active agents. Mildly alkaline formulation giving a pH of 10 as a 1% solution. May damage some aluminium surfaces as an undiluted concentrate. Readily biodegradable.

2. COMPOSITION / INFORMATION ON INGREDIENTS

HAZARDOUS COMPONENT	CAS NO	EINECS	% CONCENTRATION	HAZARD	RISK PHRASES	WEL
Sodium metasilicate	6834-92-0	10213-79-3	0 → 5%	C	R34, R37	-
Tetra potassium pyrophosphate	7320-34-5	230-785-7	0 → 5%	X _i	R36	-
Trisodium nitrilotriacetate	5064-31-3	225-768-6	0 → 5%	X _n	R22, R36	-
2-(2-Butoxyethoxy) ethanol	112-34-5	203-961-6	0 → 5%	X _i	R36	-
Alcohol Ethoxylate	68439-45-2	-	5 → 10%	X _n	R22, R41	-
Quaternary fatty amine ethoxylate	68989-03-7	-	0 → 5%	X _i , N	R41, R51,53	-

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):

Risk of serious damage 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. Oral toxicity; LD50 greater than 2000 mg/kg. The product is non-volatile and aqueous based so that inhalation risk is minimal.

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.

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. Do not induce vomiting.

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

Workplace Exposure Limits: None listed in EH40: 2005.

Engineering Controls: Provide eyewash station

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

Eyes: Wear tightly fitting safety goggles.

9. PHYSICAL AND CHEMICAL PROPERTIES

Density at 20°C	:	1.08
Vapour Pressure at 20°C	:	Essentially water vapour
Solubility in water at 20°C	:	Complete
pH Value	:	1% solution approximately 10
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, risk of serious damage to eyes.

Ingestion: Low acute toxicity. May cause irritation to mucous membranes in mouth, throat, stomach and intestinal canal.

Sobo Degreaser

Toxicological Data:

For individual components:

Component	Acute Toxicity
Sodium metasilicate	LD50 oral (rat): 1153mg/kg
Tetrapotassium pyrophosphate	LD50 oral (rat): >2000mg/kg
Trisodium nitrilotriacetate	LD50 oral (rat): >2000mg/kg
2-(2-Butoxyethoxy ethanol)	LD50 oral (rat): >5660mg/kg
Alcohol ethoxylate	Oral: 200< LD50<2000mg/kg Dermal: LD50>2000mg/kg Inhalation: LC50>5mg/L
Quaternary fatty amine ethoxylate	LD50 oral (rat): <2000mg/kg

12. ECOLOGICAL INFORMATION

Ecotoxicity:

For individual components:

Component	Acute Toxicity
Sodium metasilicate	EC50 (Daphnia: Daphnia magna) 24 h: 300 mg/L LC50 (Fish: Brachydanio rerio): 24h: 124mg/L
Trisodium nitrilotriacetate	LC50 96h (fish): >100mg/kg
Alcohol ethoxylate	Fish: 1< LC50<10mg/L Daphnia: 1< LC50<10mg/L Algae: 1< LC50<10mg/L
Quaternary fatty amine ethoxylate	LC50 96h (fish): 1-10mg/kg

Degradability:

All components are readily biodegradable by OECD method 301D.

Bioaccumulation:

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

13. DISPOSAL CONSIDERATION

Disposal Methods:

Dispose of in accordance with local regulations and local authority requirements.

14. TRANSPORT INFORMATION

Not classified as hazardous for transportation purposes.

15. REGULATORY INFORMATION

Irritant. Xi.

R41 Risk of serious damage to 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.

S39 Wear eye/face protection.

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

Contains no materials allocated an Occupational Exposure Standard or Maximum Exposure Limit in HSE Guidance Note EH40.

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