



OIL TECHNICS LIMITED

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MATERIAL SAFETY DATA SHEET

PRODUCT

POWERWASH SF

1. DESCRIPTION / PROPERTIES (nature, reactivity):

A solvent cleaner formulated from oxygenated solvents and natural oils derived from citrus fruits. Designed for the removal of solder cream and flux residues from screens, jigs and fixtures. **Powerwash SF** is non-toxic and readily biodegradable. It has a pleasant mild citrus odour.

2. COMPOSITION / INFORMATION ON INGREDIENTS

HAZARDOUS COMPONENT	CAS NO	EINECS	% CONCENTRATION	HAZARD	RISK PHRASES	WEL
Orange terpene	8028-48-6	232-433-8	0 → 5%	X _n	R10,38,65,52/53	-
Modified alcohol	*	*	60 → 100%	-	R10, 67	-

3. HAZARD IDENTIFICATION

a) **Fire/Explosion Hazard (stability, flammability, combustion products):**

Product is flammable. Flash point 42°C. Closed cup. Not recommended for use on live electrical circuits.

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

May cause irritation by prolonged and repeated contact with skin leading to defatting and dryness. Contains orange terpenes which may cause an allergic reaction. Avoid contact with skin and in particular, with the eyes. Low risk from inhalation but vapours may cause drowsiness and dizziness. Avoid excessive inhalation of vapour e.g. on heating etc. Low order of acute oral toxicity but do not ingest.

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. 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** - Remove contact lenses. 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:

Since the product is flammable, if involved in a fire, use extinguishing media appropriate to the source of the fire such as water spray/mist, CO₂, dry powder. Do not use water in a jet.

Protection for fire fighters:

Wear self-contained breathing apparatus. Wear protective clothing.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions:

Remove all sources of ignition. 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 EH 40 2005.

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 ⁰ C	:	0.89 kg/Litre
Vapour Pressure at 25 ⁰ C	:	10mbar
Solubility in water at 20 ⁰ C	:	Dispersible
pH value	:	Not applicable
Flash point	:	42 ⁰ C closed cup
Thermal Decomposition	:	Carbon Dioxide, Carbon Monoxide, Smoke
Hazardous reactions	:	Avoid strong oxidisers

10. STABILITY AND REACTIVITY

Stability: Stable.

Materials to avoid: Avoid contact with strong oxidisers

Hazardous decomposition products: None known

11. TOXICOLOGICAL INFORMATION

Health Effects:

Respiratory: Not likely to occur. Avoid excessive inhalation of vapours which may cause drowsiness and dizziness.

Skin: May cause irritation on prolonged or repeated skin contact.

Eyes: May cause irritation.

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
Orange terpenes	LD50 oral (rat): 4400mg/kg
Modified Alcohol	LD50 oral (rat): 4000mg/kg

12. ECOLOGICAL INFORMATION**Ecotoxicity:**

For individual components:

Component	Acute Toxicity
Orange terpenes	EC50 Daphnia magna 48h 12.3mg/L
Modified Alcohol	EC10 bacteria 4600mg/L

13. DISPOSAL CONSIDERATION

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

14. TRANSPORT INFORMATION

Flammable liquid n.o.s. Contains Ethoxylated Alcohol. UN No. 1993 Class 3 packing group III
Flammable material for transportation. Flash Point 42°C (Closed Cup)

15. REGULATORY INFORMATION

R10: Flammable
R67: Vapours may cause drowsiness and dizziness.
S24/25 Avoid contact with the skin and eyes.

Regulatory Information:

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

EH40/2005: Workplace Exposure Limits 2005.

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.

Signature: _____

Date: 11th April 2007