

Health & Safety Data Sheet - SURCLEAN SPR - 2300 (Concentrate)

1. Identification of the Chemical, The Manufacturer and the Importer

1.1 Product Identification and Trade Name: - SURCLEAN SPR-2300 (Concentrate)

1.2 Identification of Manufacturer: - Surclean, Samuel White's Industrial Estate, Medina Road, Cowes, Isle of Wight, PO31 7LP, United Kingdom
Tel: - +44 (0) 1983 290333 Fax: - +44 (0) 1983 295499

2. Composition and Information on Ingredients

2.1 General Description: A mixture of inorganic and organic compounds for cleaning electronic and precision mechanical assemblies.

2.2 Hazardous Ingredients:

CAS #	Name of Ingredient	Concentration	Warning Symbol
N/A	Proprietary Aprotic Solvents (Trade Secret)	>85 %	Combustible
141435	Ethanolamine	<15 %	R20

Hazard Identification

Minor ingredients are harmful by inhalation, irritating to eyes, respiratory system and skin. There is some evidence of reproductive effects. Material mixture is non-flammable

First Aid Measures

Skin contact: In case of skin contact, flood the splashed surface with large quantities of running water.

Eye Contact: If the substance has entered the eyes, wash out with water or saline solution for at least 15 minutes

Ingestion: If the chemical has been confined to the mouth give large quantities of water as a mouthwash. Ensure the mouth is not swallowed. If the chemical has been swallowed, give about 250ml of water to dilute in the stomach. In severe cases obtain medical attention.

Inhalation: Remove the casualty out of the danger area after ensuring your own safety Loosen patient's clothing. If the casualty is unconscious, place in recovery position and monitor breathing. Apply artificial respiration if patient is not breathing. Seek medical treatment when anyone has symptoms apparently due to swallowing or inhalation.

Fire Fighting Measures

None Required

6. Accidental Release Measures

- 6.1 Personal Precautions: Use personal protective equipment to avoid breathing vapours. Avoid eye contact. Avoid prolonged or repeated skin contact. Remove unprotected personnel to a safe place.
- 6.2 Environmental precautions: None established, but do not allow run-off into sewers, waterways or into the ground.
- 6.3 Method for cleaning up: Small amounts: absorb into paper or rags and let them dry in a safe place (e.g. fume cupboard). Large amounts: absorb with inert absorbent (e.g. sand or vermiculite) and shovel into disposable containers.

Handling & Storage

Store in a cool, dry, well-ventilated area well away from heat or other sources of ignition. Store in a dry area away from strong oxidizing agents.

Exposure Control & Personal Protection

- 8.1 Use with adequate ventilation. Avoid prolonged or repeated skin contact. If needed, use protective gloves, chemical-proof goggles and apron.
- 8.2 Occupational exposure limit values:

CAS#	OEL (8 hr TWA)	STEL
034590948	100 pp	150 ppm
141435	3 ppm	Not determined
- 8.3 Personal Protective Equipment
 - 8.3.1 Special hygiene instructions-None.
 - 8.3.2 Respiratory Protection: If needed, use a respirator with organic vapour cartridge type A2.
 - 8.3.3 Hand Protection: Use chemical resistant gloves when handling the product.
 - 8.3.4 Eye Protection: Use chemical goggles when handling product.
 - 8.3.5 Skin Protection: Use chemically resistant apron if needed.

9.0 Physical & Chemical Properties

- 9.1 Physical State, Colour and Odour: Bulk liquid in an unpressurised plastic container, clear to blue colour, faint smell of floral bouquet.
- 9.2 pH: Neutral
- 9.3 Physical State Changes
- | | |
|----------------------------------|----------------|
| 9.3.1: Boiling Point | 90-100 deg C. |
| 9.3.2: Melting Point | Not determined |
| 9.3.3: Decomposition Temperature | Not determined |
- 9.4 Flashpoint: > 200 deg C.
- 9.5 Flammability: None
- 9.6 Auto Ignition temperature: None
- 9.7 Explosion Hazard: None
- 9.8 Oxidizing Properties: Not determined
- 9.9 Relative Density: ~ 1
- 9.10 Water Solubility: 100 %
- 9.11 Viscosity: 6-10 cps @ 15 deg C.

10. Stability & Reactivity

- 10.1 Avoid storing in direct sunlight.
- 10.2 Avoid oxidizers and strong acids.

11. Toxicological Information

- 11.1 Acute Toxicity: CAS 141435: Oral LD 50 (rat) 2100 mg/kg
- 11.2 Irritancy: Irritant to eyes, respiratory system and skin.
- 11.3 Sensitization: Not determined.
- 11.4 Empirical Data on Humans: De-fats the skin; discomfort to eyes, dizziness.

12. Ecological Information

- 12.1 Persistence in the environment: Biodegradable.
- 12.2 Bioaccumulation: Not determined.
- 12.3 Toxic Effects on Organisms:
- | | |
|---------------------------|----------------|
| 12.3.1: Marine pollutant: | No |
| 12.3.2: Other: | Not determined |

13. Disposal Instructions

Dispose of according to local regulations. Do not allow to run to waste water drains.

14. Transport Information

U.N. Number: None
Not subject to transport regulations.

15. Regulatory Information

15.1 Classification (CHIP): None-hazardous

The level of Ethanolamine in this product is below the concentration limit at which it is considered to give the product harmful or irritant properties.

15.2 National Regulations: No ozone depleting chemicals are used in this mixture nor in its manufacture.

16. Further Information

16.1 Purpose of use: This solvent blend is to be used for the removal of flux residues in the electronics industry or within high performance cleaning applications.

16.2 Further Information may be obtained from SURCLEAN or its agents.

Version 1.0 June 2003