

SPN-10 / SPN-13 Solar Panel Cleaning Agent

1. IDENTIFICATION

Product name	SPN-10 / SPN-13 Solar Panel Cleaning Agent
Recommended use	Industrial solar panel cleaner and nano-coating preparation agent
Supplier	Photon Planet Ltd (ABN 25 677 731 350)
Address	U2101, 7–9 Burleigh Street, Burwood NSW 2134, Australia
Telephone	+61 493 410 156
Email	sales@photonplanet.com.au
Emergency phone	Poisons Information Centre 13 11 26 (Australia, 24 h)

2. HAZARD(S) IDENTIFICATION

GHS classification	Flammable Liquid Category 2; Serious Eye Irritation Category 2A; STOT SE Category 3
Signal word	DANGER
Hazard statements	Highly flammable liquid and vapour. Causes serious eye irritation. May cause drowsiness or dizziness.
Precautionary statements	Keep away from heat, sparks and open flames. Use only in well-ventilated areas. Wear eye protection.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Ingredient	CAS No.	Concentration	Function
Ethanol	64-17-5	60 %	Carrier solvent
Water (deionised)	—	35 %	Diluent
Tetraethyl orthosilicate (TEOS)	78-10-4	2 %	Silica precursor
Colloidal silica	7631-86-9	2 %	Coating former
Acetic acid	64-19-7	1 %	Hydrolysis catalyst

The formulation contains no per- and polyfluoroalkyl substances (PFAS) and no fluorinated surfactants.

4. FIRST AID MEASURES

Inhalation	Move the affected person to fresh air. Seek medical advice if symptoms persist.
Skin contact	Wash with soap and water.

Eye contact	Rinse with clean running water for at least 15 minutes, holding eyelids apart. Seek medical attention.
Ingestion	Do not induce vomiting. Contact the Poisons Information Centre (13 11 26).

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media	Foam, dry chemical, carbon dioxide (CO ₂).
Specific hazards	Flammable vapours may form explosive mixtures with air.
Special protective equipment	Self-contained breathing apparatus and full protective clothing.

6. ACCIDENTAL RELEASE MEASURES

Eliminate all ignition sources. Ventilate the affected area. Absorb liquid with inert material (sand, vermiculite). Prevent entry into drains, waterways or confined spaces.

7. HANDLING AND STORAGE

Handle only in well-ventilated areas. Keep away from heat, sparks and open flames. Store in a cool, dry, well-ventilated location, away from oxidising agents. Classified as **Class 3 flammable liquid**.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure standard (Ethanol)	1000 ppm TWA (Safe Work Australia)
Personal protective equipment	Safety glasses, chemical-resistant gloves, protective clothing. Use a respirator if ventilation is inadequate.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Clear, colourless liquid
Odour	Alcoholic, slight vinegar note
Flash point	~ 13 °C
Boiling point	~ 78 °C
Density	0.85 – 0.90 g/cm ³
Solubility	Miscible with water

10. STABILITY AND REACTIVITY

Stable under normal storage conditions. Avoid heat and oxidising agents.

11. TOXICOLOGICAL INFORMATION

May cause eye irritation, skin dryness, and dizziness from prolonged vapour exposure.

12. ECOLOGICAL INFORMATION

Avoid release to waterways. Components are expected to be biodegradable under normal conditions.

13. DISPOSAL CONSIDERATIONS

Dispose of according to local, state and federal regulations as flammable chemical waste.

14. TRANSPORT INFORMATION

UN number	UN 1170
Proper shipping name	Ethanol Solution
Dangerous Goods class	3 (Flammable liquid)
Packing group	II
Hazchem code	2[Y]E

15. REGULATORY INFORMATION

Regulated under the Australian Industrial Chemicals Introduction Scheme (AICIS). All ingredients are listed on the Australian Inventory of Industrial Chemicals (AIIC).

16. OTHER INFORMATION

Issue date	7 August 2026
Revision	1.0
Prepared by	Photon Planet Ltd

This Safety Data Sheet has been prepared in accordance with Safe Work Australia's Model Code of Practice for the *Preparation of Safety Data Sheets for Hazardous Chemicals* and follows the Globally Harmonised System of Classification and Labelling of Chemicals, revision 7 (GHS 7). Information is provided in good faith and is believed to be accurate at the issue date; users are responsible for confirming its suitability for their intended use. For the latest revision, contact sales@photonplanet.com.au.