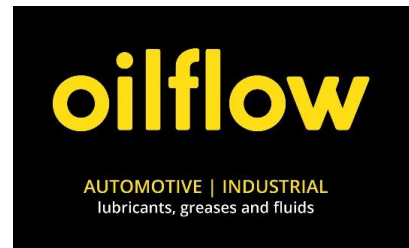


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South Africa

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www.oilflow.co.za



MATERIAL SAFETY DATA SHEET BLIXEM SOLAR PANEL CLEANER

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name: Blixem Solar Panel Cleaner
Product Details: Liquid
Manufacturer/Supplier: OILFLOW cc
4 Saligna Street,
Boksburg, Johannesburg, South Africa 1459

Health Emergency Telephone: 011 827 5848
Oilflow Website: info@oilflow.co.za
Oilflow Website: www.oilflow.co.za

2. HAZARD IDENTIFICATION

Warning Statements	Non flammable Harmful if swallowed. May cause dizziness and drowsiness. May cause eye and skin irritation. Aspiration hazard if swallowed. Keep out of reach of children. Avoid prolonged and repeated skin contact. If skin contact occurs, wash exposed area with soap and water. Launder contaminated clothing.
Eyes	May cause eye irritation
Oral	Expected to have slight acute toxicity by ingestion. Ingestion of this product and subsequent vomiting can result in aspiration into the lungs, causing chemical pneumonia and lung damage.
Inhalation	May cause symptoms of drowsiness or narcosis from inhalation of high vapour concentrations. See "long term Toxic Effects" and section 11 for additional information.
Skin	Irritating to the skin with discomfort or pain, redness, and swelling. Prolonged or repeated skin contact may be harmful. See section 11 for additional information. Prolonged or repeated skin contact may be harmful. See section 11 for additional information.



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3. COMPOSITION/INFORMATION ON THE COMPONENTS

Description: Mixture of following substances and cleaning components.

Components in Product

Component Name	Concentration (%)
Alcohol	1-5
Surfactants	1- 10
Acids	1 – 4
Water	70 - 85

4. FIRST AID MEASURES AND RESPONSE

- Eyes:** If splashed on eyes, hold the eyelids apart and pass running water for 15 minutes (S26).
If irritation occurs, contact the physician, and have product or label at hand. (P101)
- Skin:** If skin contact occurs, remove contaminated clothing and pass running water to affected skin.
- Ingestion:** If swallowed, do not induce vomiting, rinse mouth and give water to sip, if vomiting persists, bend head closer to hips to avoid vomitus entry into lungs.
Seek medical advice immediately and show this MSDS (R22) (S46).
- Inhalation:** Retreat to get fresh air immediately. Seek medical attention if rapid recovery does not occur.

5. FIRE FIGHTING MEASURES

Suitable extinguishing media: Water spray
Alcohol-resistant foam
Dry chemical
Carbon dioxide (CO₂)

Unsuitable extinguishing media: High volume water jet

Specific hazards during firefighting: Do not use a solid water stream as it may scatter and spread fire.
Flash back possible over considerable distance.
Vapors may form explosive mixtures with air.
Exposure to combustion products may be a hazard to health.

Hazardous combustion products: Carbon oxides

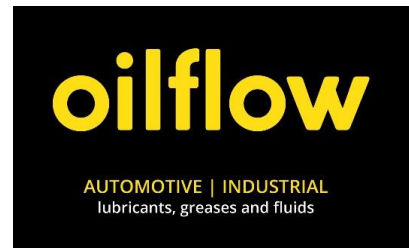
Specific extinguishing methods: Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Use water spray to cool unopened containers.
Remove undamaged containers from fire area if it is safe to do so.
Evacuate area.

Special protective equipment for fire-fighters: In the event of fire, wear self-contained breathing apparatus. Use personal protective equipment.



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6. ACCIDENTAL RELEASE MEASURES

Person-related safety precautions:	Avoid contact with eyes (S25). Ensure adequate ventilation (S51). Keep away from sources of ignition (S16). When using, do not smoke (S21)
Measures for environmental protection:	Prevent undiluted product from reaching sewage system.
Measures for cleaning / collecting:	Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust) and dispose according to local regulations.

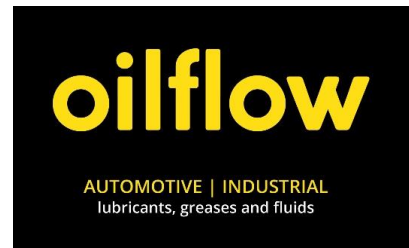
7. HANDLING AND STORAGE

Advice on safe handling:	Do not breathe vapours or spray mist. Keep out of reach of children (S02) Do not swallow. Do not get in eyes. Avoid prolonged or repeated contact with skin. Handle in accordance with good industrial hygiene and safety practice. Non-sparking tools should be used. Keep container tightly closed (S07). Keep away from heat and sources of ignition (S16). Take precautionary measures against static discharges. Take care to prevent spills, waste and minimize release to the environment.
Conditions for safe storage :	Keep in properly labelled containers. Keep tightly closed. Keep in a cool, well-ventilated place. Store in accordance with the national regulations. Keep away from heat and sources of ignition. Do not store in direct sunlight.
Materials to avoid :	Do not store with the following product types: Strong oxidizing agents Organic peroxides Flammable solids Pyrophoric liquids Pyrophoric solids Self-heating substances and mixtures Substances and mixtures which in contact with water emit flammable gases Explosives Gases



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8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Eye protection	Avoid eye contact. The wearing of chemical safety goggles or face shield is recommended.
Skin and body protection	Avoid contact with skin or clothing. Skin contact can be minimized by wearing impervious protective clothing including gloves. Protective clothing made from neoprene, nitrile, or n-butyl rubber is suitable in these applications.
Respiratory protection	None Required. However, an approved respirator is recommended if operating conditions generate vapour, mists or fumes, and if exposure cannot adequately be controlled by local exhaust ventilation. Wear approved respiratory protection such as a toxic dust, mist and fume respirator.
Hand Protection	Gloves suitable for permanent contact: No hand protection required under normal conditions:
Ventilation	No special ventilation is usually necessary. However, if operating conditions create high airborne concentrations of this material, engineering controls may be needed. Local exhaust ventilation and/or enclosure of the process is preferred in these cases.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State	Liquid
Colour	Blue
Odour	Alcoholic odour
pH Neat @20°C	4 ± 0.5
Boiling Range/Point (°C)	78 - 100
Flash Point (PMCC) (°C)	40
Solubility in Water (kg/m3)	Completely soluble
Density (kg/m3)	0.926
Auto-flammability (°C)	No Limits available

10. STABILITY AND REACTIVITY

Stability	Stable when stored and used as directed.
Conditions to Avoid	High temperatures and sources of ignition.
Materials to Avoid	Oxidizing agents
Hazardous Decomposition Products	Oxides of carbon and nitrogen smoke and toxic fumes.
Reactivity	None



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11. TOXICOLOGICAL INFORMATION

No adverse health effects expected if product is handled in accordance with this Safety Data Sheets.

Acute Effects

When inhaled, may irritate the mucous membrane.
Contact to skin may result in slight irritation to sensitive skin
Swallowing may result in nausea, vomiting and gut irritation.

12. ECOLOGICAL INFORMATION

Mobility

No information available.

Persistence/Degradability

The product is expected to biodegrade very slowly with time.
and no further information is available.

13. DISPOSAL

Person conducting disposal should wear appropriate PPE.

Product Disposal

Dispose of in accordance with all applicable local and national regulations.

Container Disposal

An approved drum recycler can recycle containers.

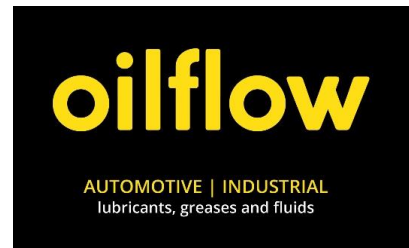
14. TRANSPORT INFORMATION

UN No.:	1170
Dangerous Goods Class	3
Hazchem Code	3Y
Packing Group	III



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15. REGULATORY INFORMATION

This product is not subjected to the following international agreements.

The STOCKHOLM CONVENTION
The ROTTERDAM CONVENTION
BASEL CONVENTION(Hazardous Waste)

Code letter and hazard designation of product: F – Flammable

Risk phrases: R10 Flammable.
R22 Harmful if swallowed.

Safety phrases: S02 Keep out of the reach of children.
S07 Keep container tightly closed.
S15 Keep away from heat.
S16 Keep away from sources of ignition.
S21 When using, do not smoke.
S25 Avoid contact with eyes.
S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S46 If swallowed, seek medical advice immediately and show this container or label.
S51 Use only in well ventilated areas.

16. OTHER INFORMATION

Date Of First Issue: 20 June 2024
Product Use: Ready to use windscreen washer/ solar panel cleaner

To the best of our knowledge, the information contained herein is accurate. Although certain hazards may be described we cannot predict that these are the only hazards, or combination of hazards, that may exist in a workplace. This MSDS, therefore, forms a component only of a risk assessment carried out by, or on behalf of, the user.

