

SPRAYON PRODUCTS (PTY) LTD

MATERIAL SAFETY DATA SHEET

1. Product and Company Identification

Product name: Spray Guard
Product Description: Fabric Protector & Waterproofer

Company Identification: Sprayon Products (Pty) Ltd
222 2nd Street
Wynberg Gauteng
South Africa

Emergency Contact No's: (2711) 440-2202

2. Composition and Information on Ingredients

Component	Amount
Silicone	10%
Trichloroethylene	90%

3. Hazards Identification

3.1 Emergency Overview

Odour, Colour, Grade: Clear Liquid

General Physical Form: Liquid

Immediate health, physical and environmental hazards: Flammable liquid and vapor. Closed containers exposed to heat from fire may build pressure and explode. Contact with aluminum or zinc in a pressurised system may generate hydrogen gas which could create an explosion hazard. Vapours may travel long distances along the ground or floor to an ignition source and flash back. May cause target organ effects.

3.2 Potential Health Effects

Eye Contact: Moderate eye irritation. Signs/Symptoms may include redness, swelling, pain tearing, and blurred or hazy vision.

Skin Contact: Mild skin irritation. Sign/symptoms may include localized redness, swelling and itching.

Inhalation: Upper Respiratory Tract Irritation: Signs/symptoms may include cough, sneezing, nasal discharge, headache, hoarseness, and nose and throat pain.

Intentional concentration and inhalation may be harmful or fatal.

May be absorbed following inhalation and cause target organ effects.

Ingestion: Gastrointestinal Irritation: Signs/symptoms may include abdominal pain, nausea, diarrhea and vomiting.

May be absorbed following ingestion and cause target organ effects.

May be absorbed following ingestion and cause target organ effects.

Target Organ Effects: Central Nervous System (CNS) Depression: Signs/symptoms may include headache, dizziness, drowsiness, in coordination, nausea, Slowed reaction time, slurred speech, giddiness, and unconsciousness.

4. FIRST AID MEASURES

4.1 FIRST AID PROCEDURES

The following first aid recommendations are based on an assumption that appropriate personal and industrial hygiene practices are followed.

Eye Contact: Flush eyes with large amounts of water. If signs/symptoms persist, get medical attention.

Skin Contact: Wash affected area with soap and water. If signs/symptoms develop, get medical attention.

Inhalation: Remove person to fresh air. If signs/symptoms develop, get medical attention.

If Swallowed: Do not induce vomiting. Give victim two glasses of water. Never give anything by mouth to an unconscious person. Get immediate medical attention.

5. FIRE FIGHTING MEASURES

5.1 FLAMMABLE PROPERTIES

Auto ignition temperature 399 °C

Flash Point 12 °C [*Test Method:* Closed Cup]

Flammable Limits - LEL 2 %

Flammable Limits - UEL 12.8 %

5.2 EXTINGUISHING MEDIA

Use fire extinguishers with class B extinguishing agents (e.g., dry chemical, carbon dioxide).

5.3 PROTECTION OF FIRE FIGHTERS

Special Fire Fighting Procedures: Water may not effectively extinguish fire; however, it should be used to keep fire-exposed containers and surfaces cool and prevent explosive rupture. Exposure to extreme heat can give rise to thermal decomposition. Wear full protective equipment and a self-contained breathing apparatus (SCBA).

Unusual Fire and Explosion Hazards: Flammable liquid and vapor. Closed containers exposed to heat from fire may build pressure and explode. Contact with aluminum or zinc in a pressurized system may generate hydrogen gas which could create an explosion hazard. Vapors may travel long distances along the ground or floor to an ignition source and flash back.

6. ACCIDENTAL RELEASE MEASURES

Accidental Release Measures: Refer to other sections of this MSDS for information regarding physical and health hazards, respiratory protection, ventilation, and personal protective equipment. Evacuate unprotected and untrained personnel from hazard area. The spill should be cleaned up by qualified personnel. Remove all ignition sources such as flames, smoking materials, and electrical spark sources. Use only non-sparking tools. Ventilate the area with fresh air. For large spill, or spills in confined spaces, provide mechanical ventilation to disperse or exhaust vapors, in accordance with good industrial hygiene practice. Warning! A motor could be an ignition source and could cause flammable gases or vapors in the spill area to burn or explode. Contain spill. For larger spills, cover drains and build dikes to prevent entry into sewer systems or bodies of water. Cover spill area with a fire-extinguishing foam designed for use on solvents, such

as alcohols and acetone that can dissolve in water. An AR - AFFF type foam is recommended. Working from around the edges of the spill inward, cover with bentonite, vermiculite, or commercially available inorganic absorbent material. Mix in sufficient absorbent until it appears dry. Remember, adding an absorbent material does not remove a toxic, corrosively or flammability hazard. Collect as much of the spilled material as possible using non-sparking tools. Clean up residue with detergent and water. Collect the resulting residue containing solution. Place in a metal container approved for transportation by appropriate authorities. Seal the container. Dispose of collected material as soon as possible.

7. HANDLING AND STORAGE

7.1 HANDLING

Keep out of the reach of children. Avoid breathing of vapors, mists or spray. Avoid eye contact with vapors, mists, or spray. Do not eat, drink or smoke when using this product. Wash exposed areas thoroughly with soap and water. Do not breathe thermal decomposition products. No smoking: Smoking while using this product can result in contamination of the tobacco and/or smoke and lead to the formation of the hazardous decomposition products mentioned in the Reactivity Data section of this MSDS. Store work clothes separately from other clothing, food and tobacco products. Avoid static discharge. Ground containers securely when transferring contents. Wear low static or properly grounded shoes. Keep away from heat, sparks, open flame, pilot lights and other Sources of ignition. Keep away from aluminum and zinc. Avoid contact with oxidizing agents.

7.2 STORAGE

Keep container in well-ventilated area. Keep container tightly closed. Store away from heat. Store out of direct sunlight. Store away from acids. Store away from oxidizing agents. Store away from strong bases, amines, and reducing agents.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 ENGINEERING CONTROLS

Provide appropriate local exhaust ventilation on open containers. Provide appropriate local exhaust when product is heated. Use general dilution ventilation and/or local exhaust ventilation to control airborne exposures to below Occupational Exposure Limits And/or control mist, vapor, or spray. If ventilation is not adequate, use respiratory protection equipment. For those situations where the fluid might be exposed to extreme overheating due to misuse or equipment failure, use with appropriate local exhaust ventilation sufficient to maintain levels of thermal decomposition products below their exposure guidelines.

8.2 PERSONAL PROTECTIVE EQUIPMENT (PPE)

8.2.1 Eye/Face Protection

Avoid eye contact with vapors, mists, or spray.

The following eye protection(s) are recommended: Indirect Vented Goggles.

8.2.2 Skin Protection

Avoid skin contact. Select and use gloves and/or protective clothing to prevent skin contact based on the results of an exposure assessment. Consult with your glove and/or protective clothing manufacturer for selection of appropriate compatible materials.

Gloves made from the following material(s) are recommended: Polyvinyl Alcohol (PVA), Polyethylene/Ethylene Vinyl Alcohol.

8.2.3 Respiratory Protection

Avoid breathing of vapors, mists or spray. Select one of the following NIOSH approved respirators based on airborne concentration of contaminants and in accordance with OSHA regulations: Full-face air-purifying respirator with organic vapor cartridges.

8.2.4 Prevention of Swallowing

Do not eat, drink or smoke when using this product. Wash exposed areas thoroughly with soap and water.

9. PHYSICAL AND CHEMICAL PROPERTIES

Odor, Color, Grade: Clear Liquid

General Physical Form: Liquid

Auto ignition temperature 399 °C

Flash Point 12 °C [*Test Method:* Closed Cup]

Flammable Limits - LEL 2 %

Flammable Limits - UEL 12.8 %

Boiling point 82 °C

Density 0.79 g/ml

Vapor Density 2.1 [*Ref STD:* AIR=1]

Vapor Density *Not Applicable*

Vapor Pressure 44 mmHg [@ 68 °F]

Vapor Pressure *Not Applicable*

Specific Gravity 0.79 [*Ref STD:* WATER=1]

PH *Not Applicable*

Solubility in Water 10 - 80 %

Percent volatile 80 - 95 %

Viscosity *No Data Available*

10. STABILITY AND REACTIVITY

Stability: Stable.

Materials and Conditions to Avoid: Accelerators; Al or Mg powder and high/shear temperature conditions; Amines; Avoid shock

Or friction. Combustibles; Finely divided active metals; Heat; High shear and high temperature conditions; Reactive metals; Reducing

Agents; Sparks and/or flames; Strong acids; Strong bases; Strong oxidizing agents

Hazardous Polymerization: Hazardous polymerization will not occur.

Hazardous Decomposition or By-Products

Substance Condition

Carbonyl Fluoride during Combustion

Carbon monoxide During Combustion

Carbon dioxide During Combustion

Hydrogen Fluoride during Combustion

Perfluoroisobutylene (PFIB) During Combustion

11. DISPOSAL CONSIDERATIONS

Waste Disposal Method: Incinerate in a permitted hazardous waste incinerator. As a disposal alternative, dispose of waste product in a permitted hazardous waste facility. Combustion products will include HF. Facility must be capable of handling halogenated materials.

12. REGULATORY INFORMATION

Hazard Categories:

Fire Hazard - Yes Pressure Hazard - No Reactivity Hazard - No Immediate Hazard - Yes Delayed Hazard - No

CHEMICAL INVENTORIES

The components of this product are in compliance with the chemical notification requirements of TSCA. All applicable chemical ingredients in this material are listed on the European Inventory of Existing Chemical Substances (EINECS), or are exempt polymers whose monomers are listed on EINECS.

WHMIS: Hazardous

13. OTHER INFORMATION

NFPA Hazard Classification

Health: 1 Flammability: 3 Reactivity: 0 Special Hazards: None

National Fire Protection Association (NFPA) hazard ratings are designed for use by emergency response personnel to address the hazards that are presented by short-term, acute exposure to a material under conditions of fire, spill, or similar emergencies. Hazard ratings are primarily based on the inherent physical and toxic properties of the material but also include the toxic properties of combustion or decomposition products that are known to be generated in significant quantities.

HMIS Hazard Classification

Health: 1 Flammability: 3 Reactivity: 0 Protection: X - See PPE section.

Hazardous Material Identification System (HMIS(r)) hazard ratings are designed to inform employees of chemical hazards in the workplace. These ratings are based on the inherent properties of the material under expected conditions of normal use and are not intended for use in emergency situations. HMIS(r) ratings are to be used with a fully implemented HMIS(r) program. HMIS(r) is a registered mark of the National Paint and Coatings Association (NPCA). No revision information is available.

DISCLAIMER: The information in this Material Safety Data Sheet (MSDS) is believed to be correct as of the date issued.

SPRAYON MAKES NO WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OR COURSE OF PERFORMANCE OR USAGE OF TRADE.

User is responsible for determining whether the Sprayon product is fit for a particular purpose and suitable for user's method of use or application. Given the variety of factors that can affect the use and application of a Sprayon product, some of which are uniquely within the user's knowledge and control, it is essential that the user evaluate the Sprayon product to determine whether it is fit for a particular purpose and suitable for user's method of use or application.