



String Shield

Safety Data Sheet

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products

Date of issue: 01/18/2019

Version: 1.0

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product form : Substance
Trade name : String Shield
Other means of identification : Liquid Bow String Wax

1.2. Relevant identified uses of the substance or mixture and uses advised against

Use of the substance/mixture : Liquid Bow String Wax

1.3. Details of the supplier of the safety data sheet

Manufacturer:

Bohning Company Ltd.
7361 North Seven Mile Road
Lake City, MI 49651
Tel: 231-229-4247

1.4. Emergency telephone number

Emergency number : HAZMAT +1-800-373-7542 (24 hours)
HAZMAT (International Shipments) +1-484-951-2432 (24 hours)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

GHS-US classification
Not classified

WHMIS Classification

2.2. Label elements

other hazards which do not result in classification : prolonged exposure. Inhalation may cause irritation, cough, short breathing. Prolonged or repeated contact with the skin may cause dermatitis. Liquid silicone based materials have lubricating properties that can substantially reduce or eliminate traction and may pose a slip hazard. Please use warning labels on consumer products where traction is essential for safety.

2.4. Unknown acute toxicity (GHS US)

No data available

SECTION 3: Composition/information on ingredients

3.1. Substances

Substance type : Mono-constituent
Name : String Shield

Name	Product identifier	%	GHS-US classification	WHMIS Classification
Poly(dimethylsiloxane)	(CAS No) 63148-62-9	98 - 100	Not classified	

Full text of H-phrases: see section 16

3.2. Mixture

Not applicable

4.1. Description of first aid measures

First-aid measures general : Never give anything by mouth to an unconscious person. Get medical advice/attention if you feel unwell.
First-aid measures after inhalation : Vaporization is not expected at ambient temperatures.
At room temperature, exposure by inhalation is not expected to cause any adverse effects on health. If user operations generate dust or fumes, assure fresh air breathing. Allow the victim to rest. In all cases of doubt, or when symptoms persist, seek medical advice.

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- First-aid measures after skin contact : Wipe off excess material; do not use force removing from skin. Use a waterless hand cleaner to remove as much of the remaining material as possible. Wash with soap and water. If skin irritation occurs: Get medical advice/attention. Risk of thermal burns on contact with molten product. After contact with molten product, cool skin area rapidly with cold water. When using high-pressure equipment, injection of product can occur. If material is injected under the skin, seek medical attention immediately. Remove contaminated clothing.
- First-aid measures after eye contact : If easy to do, remove contact lenses, if worn. Rinse immediately and thoroughly, pulling the eyelids well away from the eye (15 minutes minimum). Obtain medical attention if pain, blinking or redness persist.
- First-aid measures after ingestion : Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention.

4.2. Most important symptoms and effects, both acute and delayed

- Symptoms/injuries : Not expected to present a significant hazard under anticipated conditions of normal use. Special danger of slipping by leaking/spilling product. If user operation generates fumes. May cause irritation to the skin and eyes. May cause respiratory irritation. Pre-existing eye and respiratory disorders may be aggravated by exposure. May aggravate asthma and dermatitis.
- Symptoms/injuries after inhalation : If user operation generates fumes. Fumes are irritating to the respiratory system.
- Symptoms/injuries after skin contact : Frequent or prolonged contact with skin may cause dermal irritation. Repeated exposure may cause skin dryness or cracking. Risk of thermal burns on contact with molten product.
- Symptoms/injuries after eye contact : Dust from this product may cause eyes irritation.
- Symptoms/injuries after ingestion : Not applicable.

4.3. Indication of any immediate medical attention and special treatment needed

No additional information available

SECTION 5: Firefighting measures

5.1. Extinguishing media

- Suitable extinguishing media : Use extinguishing media appropriate for surrounding fire. Foam. Dry powder. Carbon dioxide. Sand. Water mist.
- Unsuitable extinguishing media : Water spray. Do not use a heavy water stream.

5.2. Special hazards arising from the substance or mixture

No additional information available

5.3. Advice for firefighters

- Firefighting instructions : Exercise caution when fighting any chemical fire. Fight fire from safe distance and protected location. Avoid (reject) fire-fighting water to enter environment. Use water spray to cool unopened containers.
- Protective equipment for firefighters : In case of fire: Wear self-contained breathing apparatus. Do not enter fire area without proper protective equipment, including respiratory protection.
- Other information : Caution: this product can cause the floor to be slippery. This material will float on water. Hazardous decomposition products may be released during prolonged heating like smokes, carbon monoxide and dioxide, SiO₂.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

- General measures : Spills of this product present a serious slipping hazard. Control airborne concentrations below the exposure limits. Avoid inhalation of vapors. Wear suitable protective clothing and eye/face protection. This material will float on water. In case of large spills the product may be hazardous to aquatic organisms due to possible formation of a film on the surface water which can diminish dissolved oxygen levels. Relevant water authorities should be notified of any large spillage to water course or drain. Material spilled on hard surface can present a serious slipping/falling hazard. Material spilled on hard surface can present a serious slipping/falling hazard.

6.1.1. For non-emergency personnel

- Protective equipment : Refer to section 8. Wear suitable protective clothing, gloves and eye/face protection.
- Emergency procedures : Evacuate unnecessary personnel. Special danger of slipping by leaking/spilling product. Stop leak if safe to do so. Clean up even minor leaks or spills if possible without unnecessary risk.

6.1.2. For emergency responders

- Protective equipment : Equip cleanup crew with proper protection. Wear suitable protective clothing. Boots.
- Emergency procedures : Ventilate area. Avoid generation of dust. When leaks or spills occur, only properly protected personnel should remain in the area. Stop leak if safe to do so. Special danger of slipping by leaking/spilling product.

6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

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6.3. Methods and material for containment and cleaning up

Methods for cleaning up : For small spills, absorb or cover with dry earth, sand, or other inert non-combustible absorbent material and place into waste containers for later disposal. Contain large spills to maximize product recovery or disposal. Use appropriate container to avoid environmental contamination. This material and its container must be disposed of in a safe way, and as per local legislation. Clean any slippery coating that remains using a detergent / soap solution or another biodegradable cleaner.

6.4. Reference to other sections

See Heading 8. Exposure controls and personal protection.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Additional hazards when processed : Special danger of slipping by leaking/spilling product.

Precautions for safe handling : Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide adequate ventilation. Avoid breathing dust, mist or spray. Avoid inhalation of product. Avoid contact with skin and eyes. Avoid release to the environment. Wear recommended personal protective equipment.

Hygiene measures : Always wash hands and face immediately after handling this product, and once again before leaving the workplace. Do not eat, drink or smoke when using this product. Handle in accordance with good industrial hygiene and safety practices.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures : Ensure adequate ventilation.

Storage conditions : Keep only in the original container in a cool well ventilated place. Keep container closed when not in use.

Incompatible materials : Strong acid. Strong bases. Strong oxidizing agent.

Storage area : Store in dry, cool, well-ventilated area.

Special rules on packaging : Correctly labelled. Store in a closed container. Keep container tightly closed.

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.2. Exposure controls

Appropriate engineering controls : Provide adequate ventilation. A washing facility/water for eye and skin cleaning purposes should be present. Facilities: shower, eye shower.

Personal protective equipment : The following pictograms represent the minimum requirements for personal protective equipment. Avoid all unnecessary exposure. Gloves. Protective goggles. Protective clothing.



Hand protection : Wear protective gloves.

Eye protection : Chemical goggles or safety glasses with side-shields.

Skin and body protection : Long sleeved protective clothing, safety foot-wear. Wear personal protection equipment.

Respiratory protection : In case of insufficient ventilation, wear suitable respiratory equipment.

Thermal hazard protection : Wear heat resistant boots and protective clothing when handling material at elevated temperatures.

Environmental exposure controls : Avoid release to the environment.

Consumer exposure controls : Handle in accordance with good industrial hygiene and safety procedures. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

Other information : Do not eat, drink or smoke during use.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Liquid

Appearance : Clear

Colour : Clear, Colorless

odour : Odorless

Odour threshold : No data available

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pH	: 7
Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: -55 °C (-67 °F)
Freezing point	: No data available
Boiling point	: No data available
Flash point	: > 250 °C (> 482 °F) (ISO 2592) > 150 °C (> 302 °F) (EN 22719)
Self-ignition temperature	: approx. 450 °C (842 °F) (DIN 51794)
Decomposition temperature	: > 250 °C (> 482 °F)
Flammability (solid, gas)	: No data available
Vapour pressure	: < 0.13 hPa at 20 °C
Relative vapour density at 20 °C	: No data available
Relative density	: No data available
Density	: 0.965 (Specific gravity) (25 °C (77 °F))
Solubility	: Insoluble in water.
Log Pow	: No data available
Log Kow	: No data available
Viscosity, kinematic	: 50 mm ² /s (25 °C (77 °F)) (DIN 53018)
Viscosity, dynamic	: 50 Pas (25 °C (77 °F))
Explosive properties	: No data available
Oxidizing properties	: No data available
Explosive limits	: No data available

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

No additional information available

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

Hazardous polymerization will not occur.

10.4. Conditions to avoid

Direct sunlight. Extremely high or low temperatures.

10.5. Incompatible materials

Strong acids. Strong bases.

10.6. Hazardous decomposition products

Fume. Carbon oxides (CO, CO₂). Silicon dioxide. Formation of small amounts of formaldehyde at temperatures above 150 °C (302 °F) occurs through oxidation.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity	: Not classified
Skin corrosion/irritation	: Not classified pH: 7
Serious eye damage/irritation	: Not classified pH: 7
Respiratory or skin sensitization	: Not classified
Germ cell mutagenicity	: Not classified. Based on available data, the classification criteria are not met
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified. Based on available data, the classification criteria are not met
Specific target organ toxicity (single exposure)	: Not classified
Specific target organ toxicity (repeated exposure)	: Not classified. Based on available data, the classification criteria are not met

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Aspiration hazard	: Not classified. Based on available data, the classification criteria are not met
Potential Adverse human health effects and symptoms	: Based on available data, the classification criteria are not met.
Symptoms/injuries after inhalation	: If user operation generates fumes. Fumes are irritating to the respiratory system.
Symptoms/injuries after skin contact	: Frequent or prolonged contact with skin may cause dermal irritation. Repeated exposure may cause skin dryness or cracking. Risk of thermal burns on contact with molten product.
Symptoms/injuries after eye contact	: Dust from this product may cause eyes irritation.
Symptoms/injuries after ingestion	: Not applicable.

SECTION 12: Ecological information

12.1. Toxicity

No additional information available

12.2. Persistence and degradability

Lightning Lube	
Persistence and degradability	Biologically not degradable. Degradable to a certain extent in abiotic processes. Elimination by adsorption to activated sludge.

12.3. Bioaccumulative potential

Lightning Lube	
Bioaccumulative potential	Not established.

12.4. Mobility in soil

No additional information available

12.5. Other adverse effects

Other information : Avoid release to the environment. In case of large spills the product may be hazardous to aquatic organisms due to possible formation of a film on the surface water which can diminish dissolved oxygen levels. Insoluble in water. Forms thin oil film on surface of water. Absorbed by floating particles. Separation by sedimentation.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste disposal recommendations : Dispose in a safe manner in accordance with local/national regulations. It is the responsibility of the user to determine if disposal material is hazardous according to federal, state and local regulations.

Additional information : This information of RCRA waste classification and disposal methodology provided below applies only to the BOHNING Products, as supplied. If the material has been altered on contaminated, or it has exceeded its recommended shelf life, the guidance may be inapplicable. Hazardous waste classification under federal regulations (40 CFR part 261 et seq.) is dependent upon whether a material is a RCRA listed hazardous waste or has any of the four RCRA hazardous waste characteristics Refer to 40 CFR Part 261.33 to determine if a given material to be disposed of is a RCRA listed hazardous waste, information contained in Section 15 of this MSDS is not intended to indicate if the product is a listed hazardous waste. RCRA Hazardous Waste have four characteristics defined in 40 CFR Section 261.21-61.24: Ignitability, Corrosivity, Reactivity, and Toxicity. To determine Ignitability, see Section 5 of this MSDS (Flash Point). For Corrosivity, see Section 9 and 14 (pH and DOT Corrosivity). For Reactivity, see Section 10 (incompatible materials). For Toxicity, see Section 3 and 12 (Composition, Ecological Hazards). Federal regulations are subject to change. State and local requirements, which may differ from or be more stringent than the federal regulations, may also apply to the classification of the material if it is to be disposed. Bohning encourages the recycle, recovery and reuse of materials, where permitted, as an alternate to disposal as a waste. Bohning recommends that organic materials classified as RCRA hazardous wastes be disposed of by thermal treatment or incineration at an EPA approved facilities. Bohning has provided the foregoing for information only; the person generating the waste is responsible for determining the waste classification and disposal method.

Ecology - waste materials : Avoid release to the environment. In case of large spills the product may be hazardous to aquatic organisms due to possible formation of a film on the surface water which can diminish dissolved oxygen levels.

SECTION 14: Transport information

In accordance with ADR / RID / ADNR / IMDG / ICAO / IATA

14.1. UN number

Not applicable

14.2. UN proper shipping name

Not applicable

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14.2 Additional information

Other information : No supplementary information available.

Overland transport

No additional information available

Transport by sea

No additional information available

Air transport

No additional information available

SECTION 15: Regulatory information

CANADA

Poly(dimethylsiloxane) (63148-62-9)

Listed on the Canadian DSL (Domestic Substances List) inventory.

15.2. International regulations

Poly(dimethylsiloxane) (63148-62-9)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

EU-Regulations

No additional information available

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Not classified

Classification according to Directive 67/548/EEC or 1999/45/EC

Not classified

15.2.2. National regulations

Poly(dimethylsiloxane) (63148-62-9)

Listed on the AICS (the Australian Inventory of Chemical Substances)
Listed on Inventory of Existing Chemical Substances (IECSC)
Listed on the Japanese ENCS (Existing & New Chemicals Substances) inventory.
Listed on the Korean ECL (Existing Chemical List) inventory.
Listed on New Zealand - Inventory of Chemicals (NZIoC)
Listed on Inventory of Chemicals and Chemical Substances (PICCS)

SECTION 16: Other information

HMIS III Rating

Health : 1 Slight Hazard - Irritation or minor reversible injury possible
Flammability : 1 Slight Hazard
Physical : 0 Minimal Hazard

SDS Canada (GHS)

The conditions of handling, storage, use and disposal of the product covered by this SDS are beyond the control and knowledge of Bohning Archery. Therefore we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of this product. This SDS meets the requirements specified in 29 CFR 1910.1200. Customers are responsible for compliance with local, state, and federal regulations that may be pertinent in the storage, application, and disposal of this product