



PTFE-Free Thread Sealant

Safety Data Sheet

According to the Hazardous Substances and New Organisms Act (1996)
Date of Issue: 06/11/2019

Version: 1.0

SECTION 1: IDENTIFICATION OF THE SUBSTANCE OR MIXTURE AND OF THE SUPPLIER

1.1. Product Name

Product Form: Mixture

Product Name: PTFE-Free Thread Sealant

1.2. Other Names

Not available

1.3. Recommended Use

Thread Sealant.

1.4. Company Name, Address And Contact Details

Company

Swagelok Manufacturing Company, LLC
29495 F.A. Lennon Drive
Solon, Ohio 44139
440-519-4000
www.swagelok.com

Distributor

Swagelok New Zealand
111c Kerwyn Avenue
East Tamaki, Auckland 2013
New Zealand
(09) 273 2720

1.5. Emergency Phone Number

Emergency Number : New Zealand Poisons Hotline: 0800 764 766

SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification Of The Substance Or Mixture

GHS-NZ classification Not classified as a hazardous chemical.

2.2. GHS Label Elements, Including Precautionary Statements

GHS-NZ Labeling

No labelling applicable

2.3. Other hazards which do not result in classification

Exposure may aggravate pre-existing eye, skin, or respiratory conditions.

2.4. Unknown Acute Toxicity (GHS-NZ)

No data available

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1. Substance

Not applicable

3.2. Mixture

Name	Synonyms	Product Identifier	% *	GHS Ingredient Classification
Nonanedioic acid, polymer with 1,2-propanediol	Poly(propylene glycol azelate) / Propylene glycol azelate	(CAS-No.) 29408-67-1	60 - 70	Not classified
Polypropylene	POLYPROPYLENE / Polypropyl-1-ene / Polypropylene homopolymer / Polypropylene and polypropylene wax / Polypropylene wax / 1-Propene, homopolymer	(CAS-No.) 9003-07-0	15 - 25	Not classified
Magnesium oxide (MgO)	Calcined magnesite / Magnesium oxide / MAGNESIUM OXIDE / Magnesia	(CAS-No.) 1309-48-4	15 - 25	6.1E: Acute Tox. 5 (Oral), H303
Magnesium stearate	Octadecanoic acid, magnesium salt / Stearate, magnesium / Stearic acid, magnesium salt / Octadecanoic acid, magnesium salt (2:1) / Magnesium distearate / MAGNESIUM STEARATE / Salts of stearic acids with	(CAS-No.) 557-04-0	1 - 5	6.1E: Acute Tox. 5 (Oral), H303

PTFE-Free Thread Sealant

Safety Data Sheet

According to the Hazardous Substances and New Organisms Act (1996)

	magnesium bases / Magnesium octadecanoate / Bis(octadecanoic acid)magnesium salt / Salt of stearic acid with magnesium base / Dioctadecanoate magnesium			
1,3,2-Dioxaborinane, 2,2'-oxybis[4,4,6-trimethyl-, mixture with 2,2'-[(1-methyl-1,3-propanediyl)bis(oxy)]bis[4-methyl-1,3,2-dioxaborinane]		(CAS-No.) 8063-89-6	< 1	3.1D: Flam. Liq. 4, H227

Full text of H-statements: see section 16

*Percentages are listed in weight by weight percentage (w/w%) for liquid and solid ingredients. Gas ingredients are listed in volume by volume percentage (v/v%)

SECTION 4: FIRST AID MEASURES

4.1. Description of Necessary First-Aid Measures

General: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

Inhalation: When symptoms occur: go into open air and ventilate suspected area. Obtain medical attention if breathing difficulty persists.

Skin Contact: Remove contaminated clothing. Drench affected area with water for at least 15 minutes. Obtain medical attention if irritation develops or persists.

Eye Contact: Rinse cautiously with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Obtain medical attention if irritation develops or persists.

Ingestion: Rinse mouth. Do NOT induce vomiting. Obtain medical attention.

4.2. Most Important Symptoms/Effects, Acute and Delayed

General: Not expected to present a significant hazard under anticipated conditions of normal use.

Inhalation: Prolonged exposure may cause irritation.

Skin Contact: Prolonged exposure may cause skin irritation.

Eye Contact: May cause slight irritation to eyes.

Ingestion: Ingestion may cause adverse effects.

Chronic Symptoms: None expected under normal conditions of use.

4.3. Indication of Immediate Medical Attention and Special Treatment Needed, If Necessary

If exposed or concerned, get medical advice and attention. If medical advice is needed, have product container or label at hand.

SECTION 5: FIRE-FIGHTING MEASURES

5.1. Extinguishing Media

Suitable Extinguishing Media: Water spray, fog, carbon dioxide (CO₂), alcohol-resistant foam, or dry chemical.

Unsuitable Extinguishing Media: Do not use a heavy water stream. Use of heavy stream of water may spread fire.

5.2. Specific Hazards Arising From the Chemical

Fire Hazard: Not considered flammable but may burn at high temperatures.

Explosion Hazard: Product is not explosive.

Reactivity: Hazardous reactions will not occur under normal conditions.

Hazchem Code: Not allocated.

5.3. Special Protective Actions for Fire-Fighters

Precautionary Measures Fire: Exercise caution when fighting any chemical fire.

Firefighting Instructions: Use water spray or fog for cooling exposed containers.

Protection During Firefighting: Do not enter fire area without proper protective equipment, including respiratory protection.

Hazardous Combustion Products: Carbon oxides (CO, CO₂). Nitrogen oxides. Magnesium oxides.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal Precautions, Protective Equipment and Emergency Procedures

General Measures: Avoid prolonged contact with eyes, skin and clothing. Avoid breathing (vapour, mist, spray).

PTFE-Free Thread Sealant

Safety Data Sheet

According to the Hazardous Substances and New Organisms Act (1996)

6.1.1. For Non-Emergency Personnel

Protective Equipment: Use appropriate personal protective equipment (PPE).

Emergency Procedures: Evacuate unnecessary personnel.

6.1.2. For Emergency Responders

Protective Equipment: Equip cleanup crew with proper protection.

Emergency Procedures: Upon arrival at the scene, a first responder is expected to recognize the presence of dangerous goods, protect oneself and the public, secure the area, and call for the assistance of trained personnel as soon as conditions permit.

Ventilate area.

6.2. Personal Precautions, Protective Equipment and Emergency Procedures

Prevent entry to sewers and public waters.

6.3. Methods and Materials for Containment and Cleaning Up

For Containment: Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams.

Methods for Cleaning Up: Clean up spills immediately and dispose of waste safely. Transfer spilled material to a suitable container for disposal. Contact competent authorities after a spill.

6.4. Reference to Other Sections

See Section 8 for exposure controls and personal protection and Section 13 for disposal considerations.

SECTION 7: HANDLING AND STORAGE

7.1. Precautions for Safe Handling

Additional Hazards When Processed: Contains substances that are combustible dusts. If dried and allowed to accumulate, may form combustible dust concentrations in air that could ignite and cause an explosion. Take appropriate precautions.

Precautions for Safe Handling: Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Avoid prolonged contact with eyes, skin and clothing. Avoid breathing vapour, mist, spray.

Hygiene Measures: Handle in accordance with good industrial hygiene and safety procedures.

7.2. Conditions for Safe Storage, Including Any Incompatibilities

Technical Measures: Comply with applicable regulations.

Storage Conditions: Keep container closed when not in use. Store in a dry, cool place. Keep/Store away from direct sunlight, extremely high or low temperatures and incompatible materials.

Incompatible Materials: Strong acids, strong bases, strong oxidisers.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control Parameters

For substances listed in section 3 that are not listed here, there are no established Exposure limits from the manufacturer, supplier, importer, or the appropriate advisory agency including: ACGIH (TLV), AIHA (WEEL), UK HSE (WEL), Australia OELs, or New Zealand (WES)

Magnesium oxide (MgO) (1309-48-4)		
USA ACGIH	ACGIH TWA (mg/m ³)	10 mg/m ³ (inhalable particulate matter)
USA ACGIH	ACGIH chemical category	Not Classifiable as a Human Carcinogen
Australia	TWA (mg/m ³)	10 mg/m ³ (fume)
New Zealand	TWA (mg/m ³)	10 mg/m ³ (fume)
United Kingdom	WEL TWA (mg/m ³)	10 mg/m ³ (inhalable dust) 4 mg/m ³ (fume and respirable dust)
United Kingdom	WEL STEL (mg/m ³)	30 mg/m ³ (calculated-inhalable dust) 12 mg/m ³ (calculated-fume and respirable dust)

8.2. Monitoring

Monitoring Methods: A specific exposure sampling method is not available.

Specific Needed Monitoring: A specific exposure sampling method is not available.

Biological Exposure Indices (Bei): If exposure limits are exceeded or irritation is experienced, approved respiratory protection should be worn. In case of inadequate ventilation, oxygen deficient atmosphere, or where exposure levels are not known wear approved respiratory protection.

8.3. Exposure Controls

Appropriate Engineering Controls: Suitable eye/body wash equipment should be available in the vicinity of any potential exposure. Ensure adequate ventilation, especially in confined areas. Ensure all national/local regulations are observed.

PTFE-Free Thread Sealant

Safety Data Sheet

According to the Hazardous Substances and New Organisms Act (1996)

8.4. Individual Protection Measures, Such as Personal Protective Equipment (PPE)

Personal Protective Equipment: Gloves. Protective clothing. Protective goggles.



Materials for Protective Clothing: Chemically resistant materials and fabrics.

Hand Protection: Wear protective gloves.

Eye and Face Protection: Chemical safety goggles.

Skin and Body Protection: Wear suitable protective clothing.

Respiratory Protection: If exposure limits are exceeded or irritation is experienced, approved respiratory protection should be worn. In case of inadequate ventilation, oxygen deficient atmosphere, or where exposure levels are not known wear approved respiratory protection.

Other Information: When using, do not eat, drink or smoke.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on Basic Physical and Chemical Properties

Physical State	: Liquid
Appearance	: White Paste
Odour	: Mild
Odour Threshold	: Not available
pH	: Not available
Evaporation Rate	: Not available
Melting Point	: Not available
Freezing Point	: Not available
Boiling Point	: Not available
Flash Point	: Not available
Auto-ignition Temperature	: Not available
Decomposition Temperature	: Not available
Flammability (solid, gas)	: Not applicable
Lower Flammable Limit	: Not available
Upper Flammable Limit	: Not available
Vapour Pressure	: < 1 mm Hg
Relative Vapour Density at 20°C	: Not available
Relative Density	: Not available
Density	: 1.2 g/cm ³
Specific Gravity	: Not available
Solubility	: Not available
Partition Coefficient: N-Octanol/Water	: Not available
Viscosity	: Not available

SECTION 10: STABILITY AND REACTIVITY

- 10.1. Reactivity:** Hazardous reactions will not occur under normal conditions.
- 10.2. Chemical Stability:** Stable under recommended handling and storage conditions (see section 7).
- 10.3. Possibility of Hazardous Reactions:** Hazardous polymerisation will not occur.
- 10.4. Conditions to Avoid:** Direct sunlight, extremely high or low temperatures, and incompatible materials.
- 10.5. Incompatible Materials:** Strong acids, strong bases, strong oxidisers.
- 10.6. Hazardous Decomposition Products:** None expected under normal conditions of use.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information on Toxicological Effects

Likely Routes Of Exposure: Dermal, Inhalation, Oral.

PTFE-Free Thread Sealant

Safety Data Sheet

According to the Hazardous Substances and New Organisms Act (1996)

Acute Toxicity (Oral): Not classified (Based on available data, the classification criteria are not met).

Acute Toxicity (Dermal): Not classified (Based on available data, the classification criteria are not met).

Acute Toxicity (Inhalation): Not classified (Based on available data, the classification criteria are not met).

Skin Corrosion/Irritation: Not classified (Based on available data, the classification criteria are not met).

Eye Damage/Irritation: Not classified (Based on available data, the classification criteria are not met).

Respiratory or Skin Sensitization: Not classified (Based on available data, the classification criteria are not met).

Germ Cell Mutagenicity: Not classified (Based on available data, the classification criteria are not met).

Carcinogenicity: Not classified (Based on available data, the classification criteria are not met).

Specific Target Organ Toxicity (Repeated Exposure): Not classified (Based on available data, the classification criteria are not met).

Reproductive Toxicity: Not classified (Based on available data, the classification criteria are not met).

Specific Target Organ Toxicity (Single Exposure): Not classified (Based on available data, the classification criteria are not met).

Aspiration Hazard: Not classified (Based on available data, the classification criteria are not met).

Symptoms/Injuries After Inhalation: Prolonged exposure may cause irritation.

Symptoms/Injuries After Skin Contact: Prolonged exposure may cause skin irritation.

Symptoms/Injuries After Eye Contact: May cause slight irritation to eyes.

Symptoms/Injuries After Ingestion: Ingestion may cause adverse effects.

Chronic Symptoms: None expected under normal conditions of use.

LD50 and LC50 Data:

Magnesium stearate (557-04-0)	
LD50 Oral Rat	> 2000 mg/kg
ATE NZ (Oral)	2,500.00 mg/kg bodyweight
Magnesium oxide (MgO) (1309-48-4)	
LD50 Oral Rat	3870 mg/kg
Polypropylene (9003-07-0)	
IARC Group	3

SECTION 12: ECOLOGICAL INFORMATION

12.1. Toxicity

Ecology - General: Not classified.

Acute aquatic toxicity: Not classified

Chronic aquatic toxicity: Not classified

Soil toxicity: Not classified

Terrestrial vertebrate toxicity: Not classified

Terrestrial invertebrate toxicity: Not classified

12.2. Persistence and Degradability

PTFE-Free Thread Sealant	
Persistence and Degradability	Not established.

12.3. Bioaccumulative Potential

PTFE-Free Thread Sealant	
Bioaccumulative Potential	Not established.

12.4. Mobility in Soil Not available

12.5. Other Adverse Effects

Ozone: Not classified

Effect On The Global Warming: Not classified

Other Information: Avoid release to the environment.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Waste Disposal Recommendations: Dispose of contents/container in accordance with local, regional, national, and international regulations

Ecology - Waste Materials: Avoid release to the environment.

PTFE-Free Thread Sealant

Safety Data Sheet

According to the Hazardous Substances and New Organisms Act (1996)

SECTION 14: TRANSPORT INFORMATION

The shipping description(s) stated herein were prepared in accordance with certain assumptions at the time the SDS was authored, and can vary based on a number of variables that may or may not have been known at the time the SDS was issued.

In Accordance with UN RTDG, IMDG, and IATA

UN RTDG	IMDG	IATA
14.1. UN Number		
Not regulated for transport		
14.2. UN Proper Shipping Name		
Not applicable	Not applicable	Not applicable
14.3. Transport Hazard Class(es)		
Not applicable	Not applicable	Not applicable
Not applicable	Not applicable	Not applicable
14.4. Packing Group		
Not applicable	Not applicable	Not applicable
14.5. Environmental Hazards		
Dangerous for the environment : No	Dangerous for the environment : No Marine pollutant : No	Dangerous for the environment : No

14.6. Special Precautions For User No additional information available

14.7. Transport in Bulk According to Annex II of MARPOL and The IBC Code Not applicable

14.8. Hazchem or Emergency Action Code

Hazchem Code: : Not allocated.

SECTION 15: REGULATORY INFORMATION

15.1. International Regulatory Lists

Nonanedioic acid, polymer with 1,2-propanediol (29408-67-1)
Listed on the Canadian DSL (Domestic Substances List) Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China) Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory Listed on the Japanese ISHL (Industrial Safety and Health Law) Listed on the Korean ECL (Existing Chemicals List) Listed on the United States TSCA (Toxic Substances Control Act) inventory Listed on the TCSI (Taiwan Chemical Substance Inventory)
Polypropylene (9003-07-0)
Listed on the AICS (Australian Inventory of Chemical Substances) Listed on the Canadian DSL (Domestic Substances List) Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China) Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory Listed on the Japanese ISHL (Industrial Safety and Health Law) Listed on the Korean ECL (Existing Chemicals List) Listed on NZIoC (New Zealand Inventory of Chemicals) Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances) Listed on the United States TSCA (Toxic Substances Control Act) inventory Listed on INSQ (Mexican National Inventory of Chemical Substances) Listed on the TCSI (Taiwan Chemical Substance Inventory)
Magnesium stearate (557-04-0)
Listed on the AICS (Australian Inventory of Chemical Substances) Listed on the Canadian DSL (Domestic Substances List) Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China) Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances) Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory

PTFE-Free Thread Sealant

Safety Data Sheet

According to the Hazardous Substances and New Organisms Act (1996)

CAS No. - Chemical Abstracts Service Number	NOAEL - No-Observed Adverse Effect Level
COD – Chemical Oxygen Demand	NOEC - No-Observed Effect Concentration
EC50 - Median Effective Concentration	NTP – National Toxicology Program
EmS-No. (Fire) - IMDG Emergency Schedule Fire	OEL - Occupational Exposure Limits
EmS-No. (Spillage) - IMDG Emergency Schedule Spillage	pH – Potential Hydrogen
ErC50 - EC50 in Terms of Reduction Growth Rate	SADT - Self Accelerating Decomposition Temperature
ERG code (IATA) - Emergency Response Drill Code as found in the International Civil Aviation Organization (ICAO)	SDS - Safety Data Sheet
GHS – Globally Harmonized System of Classification and Labeling of Chemicals	STEL - Short Term Exposure Limit
GWP – Global Warming Potential	STOT – Specific Target Organ Toxicity
IARC - International Agency for Research on Cancer	ThOD – Theoretical Oxygen Demand
IATA - International Air Transport Association	TLM - Median Tolerance Limit
IBC – International Bulk Chemical Code	TLV - Threshold Limit Value
IMDG - International Maritime Dangerous Goods	TWA - Time Weighted Average
LC50 - Median Lethal Concentration	UK HSE – United Kingdom Health and Safety Executive
LD50 - Median Lethal Dose	UN – United Nations
LOAEL - Lowest Observed Adverse Effect Level	UN RTDG – United Nations Recommendations on the Transport of Dangerous Goods
LOEC - Lowest-Observed-Effect Concentration	VOC – Volatile Organic Compounds
Log Koc - Soil Organic Carbon-water Partitioning Coefficient	WEEL - Workplace Environmental Exposure Levels
Log Kow - Octanol/water Partition Coefficient	WEL – Workplace Exposure Limit
	WES – Workplace Exposure Standards

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.

New Zealand GHS SDS