

### SECTION 1: CHEMICAL IDENTIFIER AND COMPANY IDENTIFICATION

#### Product Identifier

Product Form : Mixture  
 Product Name : PTFE-Free Thread Sealant

#### Relevant Identified Uses Of The Substance Or Mixture And Uses Advised Against

Use Of The Substance/Mixture : Thread Sealant.

#### Details Of The Supplier Of The Safety Data Sheet

##### Company,Manufacturer

Swagelok Manufacturing Company, LLC  
 29495 F.A. Lennon Drive  
 Solon, Ohio 44139  
 440-519-4000  
[www.swagelok.com](http://www.swagelok.com)

##### Emergency Telephone Number

Emergency Number : Infotrac: 1-800-535-5053


### SECTION 2: HAZARDS IDENTIFICATION

#### Classification Of The Substance Or Mixture

##### GHS-JP Classification

Health hazards : Serious eye damage/eye irritation Category 2  
 : Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation

##### Label Elements

Hazard Pictograms (GHS-JP) : 

Signal Word (GHS-JP) : Warning

Hazard Statements (GHS-JP) : Causes serious eye irritation (H319).  
 May cause respiratory irritation (H335).

Prevention Precautionary Statements : Avoid breathing mist, spray, vapors, dust (P261).  
 Wash hands, forearms and face thoroughly after handling. (P264).  
 Use only outdoors or in a well-ventilated area. (P271).  
 Wear protective gloves, protective clothing, and eye protection (P280).

Response Precautionary Statements : IF INHALED: Remove person to fresh air and keep comfortable for breathing (P304+P340).  
 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. (P305+P351+P338).  
 Call a POISON CENTER or doctor if you feel unwell. (P312).  
 If eye irritation persists: Get medical advice/attention. (P337+P313).

Storage Precautionary Statements : Store in a well-ventilated place. Keep container tightly closed. (P403+P233).  
 Store locked up. (P405).

Disposal Precautionary Statements : Dispose of contents/container in accordance with local, regional, national, and international regulations (P501).

##### Other Hazards

Other Hazards Which Do Not Result In Classification : Exposure may aggravate pre-existing eye, skin, or respiratory conditions. As supplied, this product is a liquid. However, when dried this product may produce combustible dust when processed. Use caution when working with combustible dusts. Use appropriate engineering controls to keep generation of airborne dust to a minimum.

### SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Distinction Of Substance Or Mixture : Mixtures

Name	Concentration	Formula	Reference Number In The Gazette List	CAS-No.
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# PTFE-Free Thread Sealant

## Safety Data Sheet

In accordance with JIS Z 7253 and JIS Z 7252

			CSCL No	ISHL No	
Magnesium oxide (MgO)	15 – 25	MgO	(1)-465	(1)-465	1309-48-4
Magnesium stearate	1 – 5	C18H36O2.1/2Mg	(2)-611	(2)-611	557-04-0
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]	< 1	C12H24B2O6.C12H 24B2O5			8063-89-6

## SECTION 4: FIRST-AID MEASURES

### Description Of First Aid Measures

- 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).
- First-Aid Measures After Inhalation : When symptoms occur: go into open air and ventilate suspected area. Obtain medical attention if breathing difficulty persists.
- First-Aid Measures After Skin Contact : Remove contaminated clothing. Immediately drench affected area with water for at least 15 minutes. Obtain medical attention if irritation develops or persists.
- First-Aid Measures After Eye Contact : Immediately rinse 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.
- First-Aid Measures After Ingestion : Rinse mouth. Do NOT induce vomiting. Obtain medical attention.
- Personal Protection In First Aid And Measures : Use appropriate personal protective equipment (PPE).

### Most Important Symptoms And Effects, Both Acute And Delayed

- Symptoms/Effects : May cause respiratory irritation. Causes serious eye irritation.
- Symptoms/Effects After Inhalation : Irritation of the respiratory tract and the other mucous membranes.
- Symptoms/Effects After Skin Contact : Prolonged exposure may cause skin irritation.
- Symptoms/Effects After Eye Contact : Contact causes severe irritation with redness and swelling of the conjunctiva.
- Symptoms/Effects After Ingestion : Ingestion may cause adverse effects.
- Chronic Symptoms : None known.

### Indication Of Any Immediate Medical Attention And Special Treatment Needed

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

### Extinguishing Media

- Suitable Extinguishing Media : Water spray, fog, carbon dioxide (CO<sub>2</sub>), 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.

### Special Hazards Arising From The Substance Or Mixture

- 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.

### Advice For Firefighters

- 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, CO<sub>2</sub>). Magnesium oxides. Ketones. Aldehydes. Acrolein. Borane/boron oxides.
- Other Information : This product contains an ingredient that is a potential combustible dust. In sufficient quantities in air with an ignition source this material may present a combustible dust hazard. Take appropriate precautions, avoid sparks and other ignition sources.

# PTFE-Free Thread Sealant

## Safety Data Sheet

In accordance with JIS Z 7253 and JIS Z 7252

### SECTION 6: ACCIDENTAL RELEASE MEASURES

#### Personal Precautions, Protective Equipment And Emergency Procedures

General Measures : Avoid all contact with skin, eyes, or clothing. Avoid breathing mist, spray, vapors, dust.

Prevention Measures For Secondary Accidents : Ventilate area.

#### For Non-Emergency Personnel

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

Emergency Procedures : Evacuate unnecessary personnel.

#### 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.

#### Environmental Precautions

Prevent Entry To Sewers And Public Waters.

#### Methods And Material 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.

#### Reference To Other Sections

See Section 8 For Exposure Controls And Personal Protection And Section 13 For Disposal Considerations.

### SECTION 7: HANDLING AND STORAGE PRECAUTIONS

#### Precautions For Safe Handling

Additional Hazards When Processed : As supplied, this product is a liquid. However, when dried this product may produce combustible dust when processed. Use caution when working with combustible dusts. Use appropriate engineering controls to keep generation of airborne dust to a minimum.

Precautions For Safe Handling : Avoid contact with skin, eyes and clothing. Avoid breathing dust. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Use appropriate personal protective equipment (PPE).

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

#### 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. Store locked up/in a secure area.

Incompatible Materials : Strong acids, strong bases, strong oxidizers. Halogenated compounds. Oxygen. Chlorine. Fluorine. Chlorine trifluoride. Bromine pentafluoride. Phosphorous pentafluoride.

#### Specific End Use(S)

Thread Sealant.

### SECTION 8: EXPOSURE CONTROLS AND PERSONAL PROTECTION

#### Control Parameters

##### Magnesium stearate (557-04-0)

USA ACGIH	ACGIH OEL TWA	10 mg/m <sup>3</sup> (inhalable particulate matter (Stearates)) 3 mg/m <sup>3</sup> (respirable particulate matter (Stearates))
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##### Magnesium oxide (MgO) (1309-48-4)

USA ACGIH	ACGIH OEL TWA	10 mg/m <sup>3</sup> (inhalable particulate matter)
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USA ACGIH	ACGIH chemical category	Not Classifiable as a Human Carcinogen
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**Biological Limits** No data available

# PTFE-Free Thread Sealant

## Safety Data Sheet

In accordance with JIS Z 7253 and JIS Z 7252

### Exposure Controls

Appropriate Engineering Controls : Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Ensure adequate ventilation, especially in confined areas. Ensure all national/local regulations are observed.

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.

Thermal Hazard Protection : When working with hot material, use suitable thermally protective clothing.

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

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

### Information On Basic Physical And Chemical Properties

Physical State	: Liquid
Appearance	: White paste
Odor	: Mild
Odor Threshold	: No data available
pH	: No data available
Evaporation Rate	: No data available
Melting Point	: No data available
Freezing Point	: No data available
Boiling Point	: No data available
Flash Point	: No data available
Auto-Ignition Temperature	: No data available
Decomposition Temperature	: > 200.00 °C (392 °F)
Flammability (Solid, Gas)	: Not applicable
Vapor Pressure	: < 1 mm Hg
Relative Vapor Density At 20 °C	: No data available
Relative Density	: No data available
Solubility	: No data available
Partition Coefficient: N-Octanol/Water	: No data available
Viscosity	: No data available
Explosion Limits	: No data available

**Other Information** No data available

## SECTION 10: STABILITY AND REACTIVITY

### Reactivity

Hazardous reactions will not occur under normal conditions.

### Chemical Stability

Stable under recommended handling and storage conditions (see section 7).

### Possibility Of Hazardous Reactions

Hazardous polymerization will not occur.

### Conditions To Avoid

Direct sunlight, extremely high or low temperatures, and incompatible materials.

# PTFE-Free Thread Sealant

## Safety Data Sheet

In accordance with JIS Z 7253 and JIS Z 7252

### Incompatible Materials

Strong acids, strong bases, strong oxidizers. Halogenated compounds. Oxygen. Chlorine. Fluorine. Chlorine trifluoride. Bromine pentafluoride. Phosphorous pentafluoride.

### Hazardous Decomposition Products

Will decompose above 200 °C (392 °F) releasing: Carbon oxides (CO, CO<sub>2</sub>). Ketones. Aldehydes. Oxides of magnesium. Acrolein. Oxides of boron.

## SECTION 11: HAZARD INFORMATION

### Information On Toxicological Effects

Acute Toxicity (Oral) : Not classified.

Acute Toxicity (Dermal) : Not classified.

Acute Toxicity (Inhalation) : Not classified.

#### Magnesium stearate (557-04-0)

LD50 Oral Rat	> 2000 mg/kg
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#### Magnesium oxide (MgO) (1309-48-4)

LD50 Oral Rat	3870 mg/kg
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Skin Corrosion/Irritation : Not classified.

Serious Eye Damage/Irritation : Causes serious eye irritation.

Respiratory Or Skin Sensitization : Not classified.

Germ Cell Mutagenicity : Not classified.

Carcinogenicity : Not classified.

Reproductive Toxicity : Not classified.

Stot-Single Exposure : May cause respiratory irritation.

STOT-repeated exposure : Not classified.

Aspiration hazard : Not classified.

Potential Adverse human health effects and symptoms : Based on available data, the classification criteria are not met.

Other Information : Not classified.

## SECTION 12: ECOLOGICAL INFORMATION

### Toxicity

Aquatic Acute : Not classified.

Aquatic Chronic : Not classified.

Ecology - General : Not classified.

#### 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] (8063-89-6)

LC50 Fish 1	71 mg/l (Exposure time: 96 h - Specie: Oncorhynchus mykiss [flow through])
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EC50 - Crustacea [1]	730 mg/l (Exposure time: 48 h - Species: Daphnia magna [flow through])
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NOEC Chronic Fish	15 mg/l
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NOEC Chronic Crustacea	170 mg/l
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### Persistence And Degradability

#### PTFE-Free Thread Sealant

Persistence and Degradability	Not established.
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### Bioaccumulative Potential

#### PTFE-Free Thread Sealant

Bioaccumulative Potential	Not established.
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### Mobility In Soil

#### PTFE-Free Thread Sealant

Ecology - Soil	Not established.
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### Other Adverse Effects

Hazardous To The Ozone Layer : Not classified.

Other Information : Avoid release to the environment.

# PTFE-Free Thread Sealant

## Safety Data Sheet

In accordance with JIS Z 7253 and JIS Z 7252

### SECTION 13: NOTES ON DISPOSAL

#### 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.

### 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 UNRTDG** Not regulated for transport

**In Accordance with IATA** Not regulated for transport

**In Accordance with IMDG/IMO** Not regulated for transport

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

#### Other Information

Other information : No supplementary information available.

### SECTION 15: REGULATORY INFORMATION

#### Regulatory Information

##### Magnesium stearate (557-04-0)

###### Industrial Safety and Health Law

Harmful Substances Whose Names Are to be Indicated on the Label (Law Art.57, Para.1, Enforcement Order Art.18 Item 1, Item 2, Attached Table No.9)  
Notifiable Substances (Law Art.57-2, Enforcement Order Art.18-2 Item 1, Item 2, Attached Table No.9)  
Magnesium stearate (Ordinance number : 327) ()

#### Regulatory Reference

Listed on the United States TSCA (Toxic Substances Control Act) inventory  
Listed on the Canadian DSL (Domestic Substances List)  
Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)  
Listed on the AICS (Australian Inventory of Chemical Substances)  
Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)  
Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory  
Listed on KECL/KECI (Korean Existing Chemicals Inventory)  
Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)  
Listed on NZIoC (New Zealand Inventory of Chemicals)  
Listed on the Japanese ISHL (Industrial Safety and Health Law)  
Listed on INSQ (Mexican National Inventory of Chemical Substances)  
Listed on the TCSI (Taiwan Chemical Substance Inventory)  
Listed on the NCI (National Chemicals Inventory)

##### Magnesium oxide (MgO) (1309-48-4)

#### Regulatory Reference

Listed on the United States TSCA (Toxic Substances Control Act) inventory  
Listed on the Canadian DSL (Domestic Substances List)  
Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)  
Listed on the Canadian IDL (Ingredient Disclosure List)  
Listed on the AICS (Australian Inventory of Chemical Substances)  
Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)  
Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory  
Listed on KECL/KECI (Korean Existing Chemicals Inventory)  
Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)  
Listed on NZIoC (New Zealand Inventory of Chemicals)  
Listed on the Japanese ISHL (Industrial Safety and Health Law)  
Listed on INSQ (Mexican National Inventory of Chemical Substances)  
Listed on the TCSI (Taiwan Chemical Substance Inventory)  
Listed on the NCI (National Chemicals Inventory)

**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-**

# PTFE-Free Thread Sealant

## Safety Data Sheet

In accordance with JIS Z 7253 and JIS Z 7252

**dioxaborinane] (8063-89-6)**

### Regulatory Reference

Listed on NZIoC (New Zealand Inventory of Chemicals)

## SECTION 16: OTHER INFORMATION

Date of Preparation or Latest Revision : 2021/02/11

Data Sources : This document has been prepared in accordance with the SDS requirements of the Japanese Hazard Communication Standard(s); JIS Z 7253 and JIS Z 7252.

Japan GHS SDS

*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.*