

MATERIAL SAFETY DATA SHEET

Product name: Sag 471

MSDS Number: 1242

Revision: 1.3 11/30/2000

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1. PRODUCT AND COMPANY IDENTIFICATION

Product name: Sag 471

Chemical name: Polydimethylsiloxane (modified)

Supplier: Crompton Corporation
One American Lane
Greenwich, CT 06831-2559, USA

Emergency telephone number: CHEMTREC (24 hours) 800-424-9300
Crompton Corporation Emergency Response (24 hours)
800-809-9998
Crompton Corporation Emergency Response (24 hours)
304-926-8418

For MSDS, Product Safety, or regulatory inquiries, call: Mr. Dana Dalrymple 304-652-8446 / (fax) 304-652-1478

Customer Service: 800-523-5862

2. COMPOSITION / INFORMATION ON INGREDIENTS

COMPONENT	CAS#	CONCENTRATION
Polyalkylene Oxide	25322-69-4	> 80.0 %
Silica filled polydimethylsiloxane	67762-90-7	< 15.0 %
Polyalkyleneoxide modified polydimethylsiloxane	67762-87-2	< 5.0 %
Silica	7631-86-9	< 5.0 %

Note(s): See Section 15 for chemicals appearing on Federal or State Right-To-Know lists.

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3. HAZARDS IDENTIFICATION

APPEARANCE

Physical state	Viscous fluid
Color	Opaque
Odor	Mild polyether

EMERGENCY OVERVIEW

NORMAL PRECAUTIONS COMMON TO SAFE MANUFACTURING PRACTICE SHOULD BE FOLLOWED IN HANDLING AND STORAGE.

POTENTIAL HEALTH EFFECTS

Swallowing

Acute effects

No evidence of harmful effects from available information.

Skin absorption

Acute effects

No evidence of harmful effects from available information.

Inhalation

Acute effects

Short-term harmful health effects are not expected from vapor generated at ambient temperature.

Skin contact

Acute effects

No evidence of harmful effects from available information.

Eye contact

Acute effects

No evidence of harmful effects from available information.

Medical conditions aggravated by overexposure

A knowledge of the available toxicology information and of the physical and chemical properties of the material suggests that overexposure is unlikely to aggravate existing medical conditions.

Other effects of overexposure

No adverse effects anticipated from available information.

POTENTIAL ENVIRONMENTAL EFFECTS

All available ecological data have been taken into account for the development of the hazard and precautionary information contained in this Safety Data Sheet.

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4. FIRST AID MEASURES

Swallowing

No emergency care anticipated.

Skin

Wash skin with soap and water.

Inhalation

No emergency care anticipated.

Eye contact

Flush eyes thoroughly with water for several minutes.

Notes to physician

Toxicology studies have shown this material to be of very low acute toxicity. There is no specific antidote.

Treatment of overexposure should be directed at the control of symptoms and the clinical condition of the patient.

5. FIRE-FIGHTING MEASURES

Flash point: 160 °C (320 °F)

Flammable limits

Lower limit: Not available

Upper limit: Not available

Special fire fighting procedures

Do not direct a solid stream of water or foam into hot, burning pools: this may cause frothing and increase fire intensity.

Special protective equipment for firefighters

Self-contained breathing apparatus. Protective clothing.

Extinguishing media

Suitable: Large fires:
- alcohol-type foam or universal-type foams
Small fires:
- CO2
- dry chemical

Unsuitable: None.

Unusual fire and explosion hazards

This material may produce a floating fire hazard in extreme fire conditions.

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6. ACCIDENTAL RELEASE MEASURES

Personal precautions

Wear suitable protective equipment.

Environmental precautions

Prevent runoff.

Methods for cleaning up

Cover with absorbent or contain.

Collect for disposal.

Observe government regulations.

7. HANDLING AND STORAGE

HANDLING

Handling precautions

Normal precautions should be followed in handling and use.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

PERSONAL PROTECTION

Respiratory protection

None expected to be needed.

Hand protection / protective gloves

Recommended order of use:

4H

Butyl

Neoprene

Nitrile (NBR)

PVC-coated

Eye protection

Safety glasses.

Other protective equipment

Eye bath

Safety shower

ENGINEERING CONTROLS

OSI SPECIALTIES
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Ventilation

General (mechanical) room ventilation is expected to be satisfactory.

EXPOSURE LIMITS

No exposure limits have been established

9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE

Physical state	Viscous fluid
Color	Opaque
Odor	Mild polyether

OTHER PROPERTIES

Boiling point	> 150 °C at STP unless specified below. Mixture
Melting point	< 0 °C at STP unless specified below.
pH	Not available
Specific gravity (H ₂ O=1)	0.9930 at 25 °C (1,013 hPa)
Vapor pressure	< 1.33 hPa (1.00 mmHg) at 20 °C
Vapor density (air=1)	Heavier than air
Solubility in water	Insoluble
Evaporation rate (Butyl Acetate=1)	< 1
Flash point	160 °C (320 °F) Method: Pensky-Martens closed cup ASTM D 93
Upper explosion limits	Not available
Lower explosion limits	Not available
Percent volatiles	Not determined
Molecular weight	Mixture

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10. STABILITY AND REACTIVITY

Stability: Stable.

Stability - Conditions to avoid

None known.

Incompatible materials

None currently known.

Hazardous combustion products

Burning can produce the following combustion products:

Oxides of carbon.

Oxides of silicon.

Carbon monoxide is highly toxic if inhaled; carbon dioxide in sufficient concentrations can act as an asphyxiant.

Acute overexposure to the products of combustion may result in irritation of the respiratory tract.

Hazardous polymerization: Will not occur.

Hazardous polymerization - Conditions to avoid

None known.

11. TOXICOLOGICAL INFORMATION

SIGNIFICANT DATA WITH POSSIBLE RELEVANCE TO HUMAN HEALTH

No information relevant to human health hazard evaluation is currently available.

12. ECOLOGICAL INFORMATION

All available ecological data have been taken into account for the development of the hazard and precautionary information contained in this Safety Data Sheet.

13. DISPOSAL CONSIDERATIONS

General: Incinerate in a furnace where permitted under appropriate Federal, State, and local regulations.

14. TRANSPORT INFORMATION

DOT Classification

This product is not regulated by DOT.

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Freight description road: OIL, O/T PETROLEUM, LUBRICATING, NOIBN

IMDG Classification

This product is not regulated by IMDG.

ICAO Classification

This product is not regulated by ICAO.

15. REGULATORY INFORMATION

Comprehensive Environmental Response Compensation and Liability Act of 1980 (CERCLA) requires notification of the National Response Center of release of quantities of hazardous substances equal to or greater than the reportable quantities (RQ's) in 40CFR302.4.

Components present in this product at a level which could require reporting under the statute are:

**** NONE ****

Superfund Amendments and Reauthorization Act of 1986 (SARA) Title III requires emergency planning based on Threshold Planning Quantities (TPQ's) and release reporting based on Reportable Quantities (RQ's) in 40CFR355 (used for SARA 302 and 304).

Components present in this product at a level which could require reporting under the statute are:

**** NONE ****

Superfund Amendments and Reauthorization Act of 1986 (SARA) Title III requires submission of annual reports of release of toxic chemicals that appear in 40CFR372 (for SARA 313). This information must be included in MSDS's that are copied and distributed for this material.

Components present in this product at a level which could require reporting under the statute are:

**** NONE ****

Massachusetts Right-To-Know Substance List (MSL)--Hazardous Substances and Extraordinarily Hazardous Substances on the MSL must be identified when present in products.

Components present in this product at a level which could require reporting under the statute are:

Chemical name	CAS#	Max weight %
Silica	7631-86-9	2.00

Pennsylvania Right-To-Know Hazardous Substance List--Hazardous Substances and Special Hazardous Substances on the list must be identified when present in products.

Components present in this product at a level which could require reporting under the statute are:

Chemical name	CAS#	Max weight %
Silica	7631-86-9	2.00

New Jersey Worker and Community Right-To-Know Act (Labeling Requirements)

Chemical name	CAS#	New Jersey TS Number
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Polyalkylene Oxide	25322-69-4
Silica filled polydimethylsiloxane	67762-90-7
Silica	7631-86-9
Polyalkyleneoxide modified polydimethylsiloxane	67762-87-2

EPA Hazard Categories (SARA 311, 312): None

California Proposition 65

This product contains no levels of listed substances, which the State of California has found to cause cancer, birth defects or other reproductive harm, which would require a warning under the statute.

California SCAQMD Rule 443.1 VOC's

Volatile Organic Components (VOC's) = Substances with vapor pressure of \Rightarrow 0.5 mmHg at 104°C (219.2°F).
This product contains 0.10 g/liter VOC's.

CHEMICAL INVENTORY

Canada: The ingredients of this product are on the DSL.

Europe: The ingredients of this mixture are on the EINECS inventory.

United States: The ingredients of this product are listed on the TSCA inventory or are exempt.

Australia: This product, or the components, is listed or exempt from listing on the Australian Inventory of Chemical Substances (AICS).

Korea: This product is listed on the Existing Chemicals List (ECL).

16. OTHER INFORMATION**RECOMMENDED USES AND RESTRICTIONS**

Please consult the product and/or application information bulletins for this product.

HMIS RATING

Health: 0	Flammability: 1	Reactivity: 0	PPI: X
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LEGEND

STP	Standard temperature and pressure
W/W	Weight/Weight
0 (HMIS)	Minimal hazard
1 (HMIS)	Slight hazard
2 (HMIS)	Moderate hazard
3 (HMIS)	Serious hazard
4 (HMIS)	Severe hazard
X (HMIS)	Personal protection rating to be supplied by user depending on use conditions

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The opinions expressed herein are those of qualified experts within Crompton Corporation. We believe that the information contained herein is current as of the date of this Safety Data Sheet. Since the use of this information and of these opinions and the conditions of use of this product are not within the control of Crompton Corporation, it is the user's obligation to determine the conditions of safe use of the products.