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Version 1.7

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Section 1 - Product and Company Information  
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Product Name                   POLYDIMETHYLSILOXANE 25'800, FOR GPC  
Product Number                81159  
Brand                           FLUKA

Company                        Sigma-Aldrich  
Address                         3050 Spruce Street  
                                  SAINT LOUIS, MO 63103  
                                  USA

Technical Phone:               +1 800-325-5832  
Fax:                            +1 800-325-5052  
Emergency Phone:               (314) 776-6555

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Section 2 - Composition/Information on Ingredient  
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Substance Name	CAS #	SARA 313
DIMETHYLPOLYSILOXANE	9016-00-6	No

Synonyms            Dimethicone 350 \* Dow corning 346 \* Good-rite \* Hy  
                          car \* Poly(oxy(dimethylsilylene))

RTECS Number:    TQ2690000

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Section 3 - Hazards Identification  
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## HMIS RATING

HEALTH: 0  
FLAMMABILITY: 1  
REACTIVITY: 0

## NFPA RATING

HEALTH: 0  
FLAMMABILITY: 1  
REACTIVITY: 0

For additional information on toxicity, please refer to Section 11.

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Section 4 - First Aid Measures  
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## ORAL EXPOSURE

If swallowed, wash out mouth with water provided person is  
conscious. Call a physician.

## INHALATION EXPOSURE

If inhaled, remove to fresh air. If breathing becomes difficult,  
call a physician.

## DERMAL EXPOSURE

In case of contact, immediately wash skin with soap and copious  
amounts of water.

## EYE EXPOSURE

In case of contact with eyes, flush with copious amounts of

FLUKA - 81159

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Section 5 - Fire Fighting Measures

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FLASH POINT

275.0 - 635.0 °F    135.0 - 335.0 °C    Method: open cup

AUTOIGNITION TEMP

N/A

FLAMMABILITY

N/A

EXTINGUISHING MEDIA

Suitable: Water spray. Carbon dioxide, dry chemical powder, or appropriate foam.

FIREFIGHTING

Protective Equipment: Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.  
Specific Hazard(s): Emits toxic fumes under fire conditions.

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Section 6 - Accidental Release Measures

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METHODS FOR CLEANING UP

Absorb on sand or vermiculite and place in closed containers for disposal. Ventilate area and wash spill site after material pickup is complete.

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Section 7 - Handling and Storage

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HANDLING

User Exposure: Avoid inhalation. Avoid contact with eyes, skin, and clothing. Avoid prolonged or repeated exposure.

STORAGE

Suitable: Keep tightly closed.

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Section 8 - Exposure Controls / PPE

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ENGINEERING CONTROLS

Safety shower and eye bath. Mechanical exhaust required.

PERSONAL PROTECTIVE EQUIPMENT

Respiratory: Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU). Respiratory protection is not required. Where protection is desired, use multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges.  
Hand: Protective gloves.  
Eye: Chemical safety goggles.

GENERAL HYGIENE MEASURES

Wash thoroughly after handling.

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Section 9 - Physical/Chemical Properties

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Appearance

Physical State: Clear liquid  
Color: Colorless

Property

Value

At Temperature or Pressure

Freezing Point	N/A	
Vapor Pressure	5 mmHg	20 °C
Vapor Density	N/A	
Saturated Vapor Conc.	N/A	
SG/Density	0.98 g/cm3	
Bulk Density	N/A	
Odor Threshold	N/A	
Volatile%	N/A	
VOC Content	N/A	
Water Content	N/A	
Solvent Content	N/A	
Evaporation Rate	N/A	
Viscosity	N/A	
Surface Tension	N/A	
Partition Coefficient	N/A	
Decomposition Temp.	N/A	
Flash Point	275.0 - 635.0 °F	Method: open cup
	135.0 - 335.0 °C	
Explosion Limits	N/A	
Flammability	N/A	
Autoignition Temp	N/A	
Refractive Index	1.404	
Optical Rotation	N/A	
Miscellaneous Data	N/A	
Solubility	N/A	

N/A = not available

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Section 10 - Stability and Reactivity  
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STABILITY

Stable: Stable.

Materials to Avoid: Strong oxidizing agents.

HAZARDOUS DECOMPOSITION PRODUCTS

Hazardous Decomposition Products: Carbon monoxide, Carbon dioxide,  
Silicon oxide.

HAZARDOUS POLYMERIZATION

Hazardous Polymerization: Will not occur

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Section 11 - Toxicological Information  
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ROUTE OF EXPOSURE

Skin Contact: May cause skin irritation.

Skin Absorption: May be harmful if absorbed through the skin.

Eye Contact: May cause eye irritation.

Inhalation: Material may be irritating to mucous membranes and  
upper respiratory tract. May be harmful if inhaled.

Ingestion: May be harmful if swallowed.

SIGNS AND SYMPTOMS OF EXPOSURE

To the best of our knowledge, the chemical, physical, and  
toxicological properties have not been thoroughly investigated.

CHRONIC EXPOSURE - CARCINOGEN

Species: Rat

Route of Application: Implant

Dose: 1500 MG/KG

Result: Tumorigenic:Neoplastic by RTECS criteria. Lungs, Thorax,  
or Respiration:Tumors. Endocrine:Tumors.

Species: Rat  
Dose: 5 GM/KG  
Route of Application: Subcutaneous  
Exposure Time: (6-15D PREG)  
Result: Effects on Fertility: Post-implantation mortality (e.g.,  
dead and/or resorbed implants per total number of implants).

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Section 12 - Ecological Information

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No data available.

ACUTE ECOTOXICITY TESTS

Test Type: LC50 Fish  
Species: Onchorhynchus mykiss (Rainbow trout)  
Time: 96 h  
Value: > 10,000 mg/l

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Section 13 - Disposal Considerations

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APPROPRIATE METHOD OF DISPOSAL OF SUBSTANCE OR PREPARATION

Contact a licensed professional waste disposal service to dispose  
of this material. Dissolve or mix the material with a combustible  
solvent and burn in a chemical incinerator equipped with an  
afterburner and scrubber. Observe all federal, state, and local  
environmental regulations.

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Section 14 - Transport Information

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DOT

Proper Shipping Name: None  
Non-Hazardous for Transport: This substance is  
considered to be non-hazardous for transport.

IATA

Non-Hazardous for Air Transport: Non-hazardous for air  
transport.

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Section 15 - Regulatory Information

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UNITED STATES REGULATORY INFORMATION

SARA LISTED: No

CANADA REGULATORY INFORMATION

WHMIS Classification: This product has been classified in  
accordance with the hazard criteria of the CPR, and the MSDS  
contains all the information required by the CPR.

DSL: No  
NDSL: No

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Section 16 - Other Information

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DISCLAIMER

For R&D use only. Not for drug, household or other uses.

WARRANTY

The above information is believed to be correct but does not  
purport to be all inclusive and shall be used only as a guide. The  
information in this document is based on the present state of our  
knowledge and is applicable to the product with regard to  
appropriate safety precautions. It does not represent any  
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