



# Factor II, Incorporated

P.O. Box 1339  
Lakeside, AZ 85929

Phone: (928) 537-8387  
Fax: (928) 537-0893

## MATERIAL SAFETY DATA SHEET A-315

### IN CASE OF EMERGENCY 928-537-8387

Factor II Technology urges each customer or recipient of this MSDS to study it carefully to become aware of and understand the hazards associated with the product. The reader should consider consulting reference works or individuals who are experts in ventilation, toxicology, and fire prevention, as necessary or appropriate to the use and understanding of the data contained in this MSDS.

To promote safe handling each customer or recipient should: (1) notify and furnish its employees, agents, contractors, customers, and others whom it knows or believes will use this material of the information regarding hazards or safety; (2) request its customers to notify their employees, customers and other users of the product of this information.

#### 1. CHEMICAL PRODUCT

PRODUCT NAME: A-315  
CHEMICAL NAME: Hexamethyldisiloxane  
FORMULA: Proprietary

#### 2. HAZARDOUS INGREDIENTS

%	MATERIAL	CAS#	OSHA Hazard
>98	Hexamethyldisiloxane	107 46 0	N

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#### 3. HAZARDS IDENTIFICATION

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##### WARNING STATEMENT:

Warning !!!! Extremely Flammable Liquid and Vaopr. Vapor may cause flash fire. Repeated overexposure may cause central nervous system depression.

This product contains dimethylpolysiloxane which can generate small amounts of formaldehyde as a byproduct of oxidative thermal decomposition beginning at approximately 300°F. Exposure to formaldehyde can cause adverse effects such as skin and respiratory sensitization and eye and throat irritation. Formaldehyde is a potential cancer hazard. Use good industrial hygiene practices to evaluate and control exposure to formaldehyde when warranted by conditions of use.

##### ACUTE INGESTION

Practically non-toxic.

##### ACUTE SKIN ABSORPTION:

Slight Irritant. Can cause redness, inflammation, irritation.

##### ACUTE INHALATION:



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Harmful if inhaled. Vapors can cause upper respiratory tract irritation, dizziness, headache.

#### EYE CONTACT:

May cause redness and irritation.

#### CHRONIC EFFECTS:

This product does not contain any ingredient designated by IARC, NYP, ACGIH, or OSHA as probable or suspected human carcinogen.

## 4. FIRST AID MEASURES

#### EMERGENCY AND FIRST AID PROCEDURES:

##### SWALLOWING:

If large quantity has been swallowed, and if patient is fully conscious, give two glasses of water. Obtain medical attention.

##### SKIN:

Wash with soap and water. Seek medical attention if irritation develops or persists.

##### INHALATION:

If symptoms should develop. Remove to fresh air. Obtain Medical attention if symptoms persist.

##### EYES:

Immediately flush eyes with water and continue washing for at least 15 minutes. Obtain medical attention if discomfort persists or visual changes.

#### NOTES TO PHYSICIAN:

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 (test method(s)): 203°F (Tag Closed Cup)

#### FLAMMABLE LIMITS IN AIR (by volume):

LOWER: 0.7                      UPPER: No Data

#### EXTINGUISHING MEDIA:

Dry chemical, foam, carbon dioxide..

#### SPECIAL FIRE FIGHTING PROCEDURES:

Firefighters should wear NIOSH/MSHA approved self-contained breathing apparatus and full protective clothing. Cool containers exposed to fire with water/

#### UNUSUAL FIRE AND EXPLOSION HAZARDS:

Product will burn under fire conditions. Vapors may travel a considerable distance to a source of ignition and flash back along vapor trail. Closed containers may explode (due to build-up of pressure) when exposed to extreme heat.



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HAZARDOUS DECOMPOSITION MATERIALS (Under fire conditions)  
Oxides of Carbon, Silica (crystalline).

## 6. ACCIDENTAL RELEASE MEASURES

### STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED:

Spills should be contained with mechanical barriers. Transfer spilled material to a suitable container for disposal. Do not flush to drain. Clean up residual material with an appropriate solvent like paint thinner or mineral spirits (provided there is good ventilation and no source of ignition).

WASTE DISPOSAL METHOD: Dispose of in accordance with all Federal, State, and local regulations.

Do Not Flush to Drain

## 7. HANDLING AND STORAGE

### PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE:

Normal precautions common to safe manufacturing practice should be followed in handling and storage.

Avoid breathing vapors and mists. Avoid direct or prolonged contact with skin and eyes. Use non sparking tools and grounded/bonded equipment and containers when transferring.

Store away from incompatible materials in tightly sealed containers and away from ignition sources. (See section 10)

### MINIMUM/MAXIMUM STORAGE TEMPERATURES:

77°F

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### INTRODUCTORY REMARKS:

Check exposure limit guidelines for formaldehyde, a byproduct of oxidative thermal decomposition of dimethylsiloxane, if this product is handles above 300°F.

### RESPIRATORY PROTECTION:

Use NIOSH approved respirator or self-contained breathing apparatus as needed to maintain personnel exposure below established Occupational Exposure Values. Under normal conditions, in the absence of other airborne contaminants, the following devices should provide protection from this material up to the conditions specified by appropriate agencies. Air-purifying (half-mask/full-face\_ respirator with cartridges/canister approved for use against organic vapors.

### EYE/FACE PROTECTION:

Appropriate ANSI Z87 approved equipment should be selected for the particular use intended for this material.

It is generally regarded as good practice to wear a minimum of safety glasses with side shields when working in industrial environments.

### SKIN PROTECTION:

Skin contact should be minimized through use of gloves and suitable long-sleeved clothing. Consideration give to both durability as well as permeation resistance.

### WORK PRACTICE CONTROLS:

Personal hygiene should be taken when working with or handling any chemical.

1. Do not store, use, or consume foods, beverages, tobacco products, or cosmetics in areas where this material is stored.
2. Wash hands and face carefully before eating, drinking, using tobacco, applying cosmetics, or using the toilet.



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3. Wash exposed skin promptly to remove accidental splashes of contact with this material.

## 9. PHYSICAL AND CHEMICAL PROPERTIES (based on typical material)

BOILING POINT: 212°F @ 760mmHg

SPECIFIC GRAVITY (H<sub>2</sub>O=1): 0.76

VAPOR PRESSURE <20mmHg at 226°F

VAPOR DENSITY (air=1): Not Available

SOLUBILITY IN WATER (By wt): Insoluble

ODOR: Odorless

PHYSICAL STATE: Colorless mobile liquid

VISCOSITY: Molecular Weight 146

Note: The above information is not intended for use in preparing product specifications.

## 10. STABILITY AND REACTIVITY DATA

STABILITY: Stable.

CONDITIONS TO AVOID: Avoid contact with elevated temperatures, open flame and other ignition sources, static electricity, water, extreme humidity.

MATERIAL/CHEMICAL TO BE AVOIDED:

Moisture, Water, Strong bases, Acids, and Oxidizing agents

DECOMPOSITION PRODUCTS:

*Hyrolysis*

Methanol

*Thermal*

Dimethycyclosiloxanes

Methylphenylcyclosiloxanes

*Oxidative/Thermal*

Formaldehyde

Traces of formaldehyde may be generated due to oxidative thermal decomposition at temperatures greater than 150°C (300°F). Exposure to formaldehyde can cause adverse effects such as skin and respiratory sensitization and eye and throat irritation. Formaldehyde is a potential carcinogen. Evaluate and control exposure to formaldehyde when warranted by conditions of use.

HAZARDOUS POLYMERIZATION: Will not occur.

## 11. TOXICOLOGICAL INFORMATION

This product does not contain any substances that are considered by OSHA, NTP, IARC or ACGIH to be *probable* or *suspected* human carcinogens.

Refer to Section 3 for further discussion of the health hazards associated with this preparation.

## 12. ECOLOGICAL INFORMATION



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ECOTOXICOLOGICAL INFORMATION: No Data found for product.  
CHEMICAL FATE INFORMATION: No Data found for product

## 13. DISPOSAL CONSIDERATIONS

Dispose of in accordance with all Federal, State, and local regulations.  
EPA Hazardous Waste YES  
EPA RCA Waste Codes:  
"I" Ignitable

## 14. TRANSPORT INFORMATION

I.A.T.A. HAZARD CLASSIFICATION:  
Technical Shipping Name:HEXAMETHYLDISILOXANE  
ID Number UN1993  
Packing Group II  
Labels Flammable Liquid  
Emergency Guide # 128

Shipping Name  
Flammable Liquid, N.O.S.

## 15. REGULATORY INFORMATION

STATUS ON SUBSTANCE LISTS:  
The concentrations shown are maximum or ceiling levels (weight %) to be used for calculations for regulations.  
Inventory Status

United States (TSCA)		Y
Canada (DSL)	Y	
Eruope (EINECS/ELINCS)		Y
Austrailia (AICS)		Y
Japan (MITI)	Y	
South Korea (KECL)		Y

All functional components of this product are listed on the TSCA Inventory.

SARA Title III Hazard Classes

Fire	Yes
Reactive	No
Acute Health	No
Release of Pressure	No
Chronic Health	No

This product does not contain any components that are regulated under California Proposition 65

## 16. OTHER INFORMATION

HMIS FORMAT:

QA-MSDS-07

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Health: 1

Flammability:3

Reactivity: 0

We believe that the information contained herein is current as of the date of this Material Safety Data Sheet, and is offered in good faith. Since the use of this information and of these opinions and the conditions of the use of the product are not within the control of Factor II Technology, it is the user's obligation to determine the conditions of safe use of the product.  
Factor II Technology Regulatory Compliance Department