



Factor II, Incorporated

Inventing and Innovating...
(Information: 1.928.537.8387)
ONLINE ORDERING www.factor2.com

SPS Internal #	99857
Product I.D.:	A-106

MATERIAL SAFETY DATA SHEET A-106 Part A

IN CASE OF EMERGENCY 928-537-8387 Factor II, Inc

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-106 Part A (2370)
CHEMICAL NAME: N/A
CHEMICAL FAMILY: Silicone
FORMULA: Mixture
MOLECULAR WEIGHT: Mixture
SYNONYMS: N/A
CAS#: Mixture

2. HAZARDOUS INGREDIENTS

%	MATERIAL	CAS#	EXPOSURE VALUE	CLASSIFICATION
15	Silicone dioxide (quartz)	14808-60-7	See Section 5	See Section 10
5	Tetra-n-propyl silicate	00682-01-9	See Section 5d	See Section 10

3. HAZARDS IDENTIFICATION

EFFECTS OF SINGLE OVEREXPOSURE:

SWALLOWING:

Small amounts transferred to the mouth by fingers during use, etc., should not injure. Swallowing large amounts may cause digestive discomfort.

SKIN ABSORPTION:

No evidence of adverse effects from available information.

INHALATION:

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



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SKIN CONTACT:

May cause skin irritation and reddening.

EYE CONTACT:

May cause irritation, experienced as stinging with excess blinking and tear production. Redness and swelling of the conjunctiva may occur.

EFFECTS OF REPEATED OVEREXPOSURE:

No evidence of adverse 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.

SIGNIFICANT LABORATORY DATA WITH POSSIBLE RELEVANCE TO HUMAN HEALTH HAZARD EVALUATION:

Contains crystalline silica, which is classified by IARC as an animal carcinogen and a probable human carcinogen.

Crystalline silica as a respirable dust may cause silicosis. Since the silica in this product is compounded into polymer matrix, it is not expected to present the same hazard as neat silica.

The EPA has expressed concern regarding the possible adverse health effects resulting from the inhalation of alkoxysilanes and has recommended that administrative and mechanical means be used to minimize exposure. n-Propanol (which is generated upon exposure to water or moisture) has been demonstrated to be carcinogenic in lifetime exposure studies in rats when administered orally or subcutaneously.

OTHER EFFECTS OF OVEREXPOSURE

None currently known.

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. Induce vomiting. Obtain medical attention.

SKIN:

Wash with soap and water.

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 persist.

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 AND EXPLOSION DATA



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FLASH POINT (test method(s): 275°F (Tag Closed Cup)

FLAMMABLE LIMITS IN AIR (by volume):
LOWER: N/A UPPER: N/A

EXTINGUISHING MEDIA:

Apply alcohol-type or universal-type foams by manufacturers' recommended techniques for large fires. Use carbon dioxide, or dry chemical media for small fires.

SPECIAL FIRE FIGHTING PROCEDURES:

Do not direct a solid stream of water or foam directly into a pool of hot, burning liquid as this may cause frothing, and may intensify the fire. Use self-contained breathing apparatus when fighting fire in an enclosed area.

UNUSUAL FIRE AND EXPLOSION HAZARDS:

Do not extinguish fires with water. Contact with water may generate n-Propanol, which is highly flammable.

Elastomer will generate hydrogen gas upon contact with its catalyst, or upon contact with acidic, basic, or oxidizing materials.

6. EXPOSURE CONTROLS / PERSONAL PROTECTION

RESPIRATORY PROTECTION:

Use NIOSH approved respirator or self-contained breathing apparatus as needed to maintain personnel exposure below established TLV.

VENTILATION: General (mechanical) room ventilation with local ventilation as needed to maintain exposure below established TLV.

PROTECTIVE GLOVES: PVC-coated.

EYE PROTECTION: Use safety goggles.

OTHER PROTECTIVE EQUIPMENT: Eye bath and safety shower.

7. PHYSICAL AND CHEMICAL PROPERTIES (based on typical material)

BOILING POINT: N/A

SPECIFIC GRAVITY (H₂O=1): 1.05

FREEZING POINT: N/A

VAPOR PRESSURE, mm Hg N/A

VAPOR DENSITY (air=1): N/A

EVAPORATION RATE (Butyl Acetate=1): N/A

SOLUBILITY IN WATER (By wt): Insoluble

APPEARANCE: Tan

ODOR: Mild Alcohol

PHYSICAL STATE: High Viscosity Liquid

PERCENT VOLATILES (by wt): See Section X

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

8. STABILITY AND REACTIVITY DATA

STABILITY: Stable.



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CONDITIONS TO AVOID: Moist or humid conditions.

INCOMPATIBILITY: Strong oxidizers may cause a reaction. H₂ may be generated upon contact with acids, bases or oxidizing material.

HAZARDOUS COMBUSTION OR DECOMPOSITION PRODUCTS:

Burning can produce carbon monoxide, oxides of silicon, and hydrocarbons. 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.

9. ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED:

Spills should be contained. Large spills removed by vacuum. Smaller spills may be soaked up with absorbent material.

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

DISPOSAL CONSIDERATIONS:

Dispose of in accordance with all Federal, State, and local regulations.

10. SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE WARNING!

Causes skin and eye irritation.

Contains crystalline silica—suspected cancer hazard.

Avoid contact with eyes, skin, and clothing.

Wash thoroughly after handling.

OTHER PRECAUTIONS:

HMIS FORMAT

Health: 0

Flammability: 1

Reactivity: 0

11. ECOLOGICAL INFORMATION

ECOTOXICOLOGICAL INFORMATION:

Complete information not yet available.

CHEMICAL FATE INFORMATION:

Complete information not yet available.

12. TRANSPORT INFORMATION

I.A.T.A. HAZARD CLASSIFICATION:

Proper Shipping Name: None not regulated

Hazard Class: N/A

UN Number:

UN Packing Group:

Hazard Label: None



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13. REGULATORY INFORMATION

STATUS ON SUBSTANCE LISTS:

The concentrations shown are maximum or ceiling levels (weight %) to be used for calculations for regulations.
Trade Secrets are indicated by "TS".

CHIP REGULATIONS

Chemicals (Hazards Information and Packaging) Regulations 1993 requires physico-chemical and health hazard determination of all substances and preparations manufactured, transported, stored, modified, or consumed within the EEC. Components present in this product at a level which could require reporting under the statute are:

****NONE ****

FEDERAL EPA

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 40 CFR 302.4. 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 40 CFR 355 (used for SARA 302, 304, 311, and 312). 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 40 CFR 372 (for SARA 302-309). This information must be included in all MSD S's that are copied and distributed for this material. Components present in this product at a level which could require reporting under this statute are:

*** NONE****

TSCA INVENTORY STATUS

The ingredients of this product are listed on, or are exempt from listing on, the TSCA inventory.

STATE-RIGHT-TO-KNOW

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.

Silicone dioxide (quartz, crystalline)

MASSACHUSETTS 105 CMR 670.000 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:

<u>CHEMICAL</u>	<u>CAS NUMBER</u>	<u>UPPER BOUND CONCENTRATION%</u>
Silicon dioxide	14808-60-7	15
n-Propanol	00071-23-8	5



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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:

<u>CHEMICAL</u>	<u>CAS NUMBER</u>	<u>UPPER BOUND CONCENTRATION%</u>
Silicon dioxide	14808-60-7	15

NEW JERSEY Right to Know Hazardous Substance List must be identified when present in products. Components present in this product at a level which could require reporting under the statute are:

<u>CHEMICAL</u>	<u>CAS NUMBER</u>	<u>UPPER BOUND CONCENTRATION%</u>
Silicon dioxide	14808-60-7	15
n-Propanol	00071-23-8	5

CALIFORNIA SCAQMD RULE 443.1 VOC'S:

Volatile Organic Components (VOC's) = Substances with vapor pressure of > 0.5 mm Hg at 140°C (219.2°F).
This product contains < 1 % by weight VOC's.

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