



Factor II, Incorporated

P.O. Box 1339
Lakeside, AZ 85929

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

MATERIAL SAFETY DATA SHEET EXTRA STRENGTH SECURE B-460 & BT-460's In Case of emergency contact CHEMTREC Within USA/Canada 1-800-424-9300 Outside USA/Canada +1 703-527-3887

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. PHYSICAL AND CHEMICAL PROPERTIES

PRODUCT NAME: Silicone in Solvent

PHYSICAL FORM: Liquid

COLOR; Colorless to pale yellow

ODOR: Slight odor

NFPA PROFILE **Health 2** **Flammability 3** **Reactivity 0**

SPECIFIC GRAVITY @ 25°C 1.02

VISCOSITY: 4000.00 cp

FREEZING/MELTING POINT: N/A

VAOPR PRESSURE/DENSITY: Not Determined

SOLUBILITY IN WATER: Not Determined

VOLATILE CONTENT: Not Determined

2. HAZARDOUS COMPONENTS

Cas Number	Wt%	Component
000141786	40-70	Ethyl Acetate
3555473	<1.0	Tetra (trimethylsiloxy)silane
1330207	<1.0	Xylene

3. EFFECTS OF OVEREXPOSURE

ACUTE EFFECTS OF OVEREXPOSURE

SWALLOWING:

May cause irritation to the muth, throat and stomach.

SKIN ABSORPTION:

May cause moderate irritation.



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INHALATION:

Vapor overexposure may irritate eyes, nose and throat. Vapor overexposure may cause drowsiness.

EYE :

May cause severe irritation.

PROLONGED/REPEATED EXPOSURE EFFECTS

SKIN

No known applicable information.

INHALATION:

Overexposure by inhalation may injure the following organ (s): Lungs. Liver. Kidneys

ORAL:

No known applicable information.

Please refer to Section 11 for detailed toxicology information.

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 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 alkoxy silanes 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:

Do not induce vomiting. 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.

INHALATION:

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



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EYES:

Immediately flush eyes with water and continue washing for at least 15 minutes. Obtain medical attention.

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): (Tag Closed Cup) 24 Degree F/ -4.44 Degree C

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:

Vapors are heavier than air and may travel to a source of ignition and flash back. Static electricity will accumulate and may ignite vapors. Prevent a possible fire hazard by bonding and grounding or inert gas purge.

HAZARDOUS DECOMPOSITION PRODUCTS:

Thermal breakdown of this product during fire or very high heat conditions may evolve the following hazardous decomposition products: Carbon oxides and traces of incompletely burned carbon compounds. Silicon dioxide. Formaldehyde.

6. ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED:

Section 13 and 15 of this MSDS provide information regarding certain federal and state requirements. Remove possible ignition sources. Clean up remaining materials from spill with suitable absorbent. For large spills, provide diking or other appropriate containment to keep material from spreading. Final cleaning may require use of steam, solvents or detergents.

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

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.

Keep container closed, in a cool dry place
Avoid contact with skin and eyes
In case of fire do not breathe fumes

S3/S7/S8
S24/S25
S41



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Flammable
Irritating to eyes and skin

R11
R36/R38

Any proposed use of this product in elevated-temperature processes should be thoroughly evaluated to assure that safe operating conditions are established and maintained.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Component Exposure Limits

CAS Number	Component Name	Exposure Limits
141-78-6	Ethyl Acetate	OSHA PEL (final rule) and ACGIH TLV: TWA 400ppm

OCCUPATIONAL EXPOSURE VALUES AND SOURCE: None.

RESPIRATORY PROTECTION: Use NIOSH approved respirator or self-contained breathing apparatus as needed to maintain personnel exposure below established Occupational Exposure Values..

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

PROTECTIVE GLOVES: PVC-coated. Silver shield (R).

EYE PROTECTION: Use safety goggles for chemicals.

OTHER PROTECTIVE EQUIPMENT: Eye bath and safety shower.

Comments: When heated to temperatures above 150 C (300 F) in the presence of air, product can form formaldehyde vapors. Formaldehyde is a potential cancer hazard and a known skin and respiratory sensitizer. Vapors irritate eyes, nose and throat. Safe handling conditions maybe maintained by keeping vapor conditions with the OSHA permissible exposure limit for formaldehyde.

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

BOILING POINT: >77°C

SPECIFIC GRAVITY (H₂O=1): 1.02

VISCOSITY: 4,000cP

FREEZING POINT: N/A

VAPOR PRESSURE, Not Determined

VAPOR DENSITY (air=1): Not Determined

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

SOLUBILITY IN WATER (By wt): Insoluble

APPEARANCE: Colorless to pale yellow

ODOR: Not reported

PHYSICAL STATE: Liquid

PERCENT VOLATILES (by wt): See Section X

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



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10. STABILITY AND REACTIVITY DATA

STABILITY: Stable.

CONDITIONS TO AVOID: None

INCOMPATIBILITY: Oxidizing materials can cause a reaction.

HAZARDOUS POLYMERIZATION: Will not occur.

11. TOXICOLOGICAL INFORMATION

No known applicable information

12. ECOLOGICAL INFORMATION

ECOTOXICOLOGICAL INFORMATION: Complete information not yet available.

CHEMICAL FATE INFORMATION: Complete information not yet available.

13. DISPOSAL CONSIDERATIONS

When a decision is made to discard this material, as received, is it classified as a hazardous waste? Not assessed.

Federal Hazardous: Yes

Ignitable: D001

Corrosive: NA

Reactive: NA

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

14. TRANSPORT INFORMATION

I.A.T.A./ DOT/IMDG HAZARD CLASSIFICATION:

Proper Shipping Name: Ethyl Acetate

Hazard Class: 3

UN Number: UN 1173

UN Packing Group: II

15. REGULATORY INFORMATION

STATUS ON SUBSTANCE LISTS:

EPA SARA Title III Listings

Section 302 None

Section 304 CERCLA

141-78-6 4.0

Ethyl Acetate

1330-20-7 0.2

Xylene

Section 311/ 312

Acute Y

Chronic Y

Fire Y

Pressure N

Reactive N

The concentrations shown are maximum or ceiling levels (weight %) to be used for calculations for regulations.

Trade Secrets are indicated by "TS".



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FEDERAL EPA

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.

None Known

MASSACHUSETTS 105 CMR 670.000 Right-To-Know, Substance List (MSL)

141-78-6

40-70%

Ethyl Acetate

PENNSYLVANIA Right-To-Know, Hazardous Substance List

141-78-6
68440-70-0

40-70%
40-70%

Ethyl Acetate
Trimethylated silica treated
with dimethyl siloxane

NEW JERSEY Right To Know Hazardous substance List

141-78-6
68440-70-0

40-70%
40-70%

Ethyl Acetate
Trimethylated silica treated
with dimethyl siloxane

OTHER REGULATORY INFORMATION:

EPA Hazard Categories: Fire Hazard

16. OTHER INFORMATION

HMIS FORMAT:

Health: I

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