



Factor II, Incorporated

P.O. Box 1339
Lakeside, AZ 85929

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MATERIAL SAFETY DATA SHEET B-520, 521 & 522 Blue Star 40086 ADHERE

In Case of Emergency Contact 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: B-520 Adhere Adhesive
CHEMICAL NAME: Silicone and HCFC Mixture
FORMULA: Proprietary
SYNONYMS: Silione and HCFC Mixture

2. HAZARDOUS INGREDIENTS (as defined in 29 CFR 1910.1200)

%	MATERIAL	CAS#	OSHA HAZARD
15-40	Dichloropentafluoropropane	507-55-1	HAZARD
10-30	3,3 Dichlor-1,1,12,2 Pentafluoropropane	422-56-0 *****	Y Y
	Silicone Solids		N

3. HEALTH HAZARD and FIRST AID MEASURES

SWALLOWING:

Small amounts transferred to the mouth by fingers during use, etc., should not injure. Swallowing large amounts may be harmful. If victim is conscious and alert, give 2-3 glasses of water to drink and do not induce vomiting. Material may enter lungs and cause severe damage. Do not give anything by mouth to an unconscious victim. See immediate medical attention. Do not leave victim unattended. Persons in attendance should avoid direct contact with heavily contaminated clothing and vomitus. Wear impervious gloves while decontaminating skin and hair.

SKIN ABSORPTION:

Irritant. Immediately wipe excess material off skin with dry cloth; then wash skin with plenty of soap and water. Seek medical attention if irritation develops or persists.

INHALATION:

Inhalation not likely. Harmful if inhaled. Depending on the concentration and duration of exposure may cause cardiac disorders, unconsciousness, and death.



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Remove victim from immediate source of exposure and assure that the victim is breathing. If breathing is difficult, administer oxygen, if available. If not breathing administer CPR. Seek medical attention.

EYE CONTACT:

In case of contact, immediately absorb excess with clean absorbent cloth or cotton. The, hold eyelids open and flush with a steady, gentle stream of water for at least 15 minutes. Seek medical attention if irritation persists or if visual changes occur.

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

SIGNIFICANT LABORATORY DATA WITH POSSIBLE RELEVANCE TO HUMAN HEALTH HAZARD EVALUATION:
None currently known.

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.

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.

4. FIRE AND EXPLOSION DATA

FLASH POINT: Not applicable

EXTINGUISHING MEDIA:

Dry chemical, foam or 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.

HAZARDOUS DECOMPOSITION MATERIALS (UNDER FIRE CONDITIONS);

Formaldehyde

Acids

Oxides of carbon

Silica (crystalline)

Halogenated compounds

5. ACCIDENTAL RELEASE MEASURES



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STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED:

Dike spill using absorbent or impervious materials such as earth, sand or clay.

CLEANUP AND DISPOSAL OF SPILL:

Absorb with an inert, non-combustible absorbent. Scrape up and place in appropriate closed container. Clean up residual material with an appropriate solvent like paint thinner or mineral spirits, provided that there is good ventilation and no sources of ignition.

WASTE DISPOSAL METHOD:

Dispose of in accordance with all Federal, State, and local regulations. Do not flush to drain.

6. EXPOSURE CONTROLS / PERSONAL PROTECTION

OCCUPATIONAL EXPOSURE VALUES AND SOURCE: Check exposure limit guidelines for formaldehyde, a byproduct of oxidative thermal

decomposition of dimethylsiloxane, if this product is handled above 150°C (300° F)

This product can form formaldehyde vapors when heated to temperatures above 150 degrees C in the presence of air. Formaldehyde is a potential cancer hazard, a known skin and respiratory sensitizer, and an irritant to the eyes, nose, throat, skin, and digestive system. Safe handling conditions may be maintained by keeping vapor concentrations within the OSHA permissible exposure limit for formaldehyde

RESPIRATORY PROTECTION:

None required during normal use.

VENTILATION:

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

SKIN PROTECTION: None required during normal use.

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

OTHER PROTECTIVE EQUIPMENT: Eye bath and safety shower.

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

BOILING POINT: 32-129°F at 760 mmHg

SPECIFIC GRAVITY (H₂O=1) 1.55

FREEZING POINT: 32°F

VAPOR PRESSURE, @86°F --0-290 mmHg

VAPOR DENSITY (air=1): N/A

SOLUBILITY IN WATER (By wt): Insoluble

APPEARANCE: Clear viscous liquid

ODOR: Odorless

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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8. STABILITY AND REACTIVITY DATA

STABILITY: Stable.

CONDITIONS TO AVOID: Heat, open flame, spark, and static electricity.

MATERIALS/CHEMICALS TO AVOID: Strong bases, strong acids, strong oxidizing agents, alkali metals.

HAZARDOUS COMBUSTION OR DECOMPOSITION PRODUCTS:

Thermal: Dimethylcyclosiloxanes, methylphenylcyclosiloxanes.

Oxidative/Thermal: Formaldehyde

HAZARDOUS POLYMERIZATION: Will not occur.

9. ECOLOGICAL INFORMATION

ECOTOXICOLOGICAL INFORMATION: No Data found for product.

CHEMICAL FATE INFORMATION: No Data found for product.

10. DISPOSAL CONSIDERATIONS

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

11. OTHER INFORMATION

HMIS FORMAT:

Health: 0

Flammability: 1

Reactivity: 0

OTHER REGULATORY INFORMATION:

EPA Hazard Categories: None

United States (TSCA) Y

Canada (DSL) N

Europe (EINECS/ELINCS) N

Australia (AICS) Y

Japan (MITI) N

South Korea (KECL) N

TRANSPORTATION INFORMATION:

D.O.T. HAZARD Classification: None (not regulated).

12. REGULATORY INFORMATION

STATUS ON SUBSTANCE LISTS:

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

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



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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, 3- 1, 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 3 ~ 3). 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***

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.

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:

**** NONE ****

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:

**** NONE ****

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