



Factor II, Incorporated

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Material Safety Data Sheet A-3240 A

Date Prepared: 7/19/07

1. PRODUCT AND COMPANY DESCRIPTION

Factor II, Inc.

In Case of Emergency Contact 928-537-8387 Factor II, Inc. 8am-4pm MST
928-242-1308 Evenings or Weekends

Chemical Name or Synonym:

CURING AGENT PART OF A ROOM TEMPERATURE VULCANIZING SILICONE ELASTOMER

2. COMPOSITION/INFORMATION ON INGREDIENTS

Component	CAS Reg Number	OSHA Hazard	Percentage
POLYORGANOSILOXANES	*****	N	
FILLER	*****	N	
SILICA FLUX CALCINED DIATOMACEOUS EARTH	68855-54-9	Y	5-10
BUTANOL	71-36-3	Y	1-5
PLATINUM COMPLEX	*****	N	

3. HAZARDS IDENTIFICATION

A. EMERGENCY OVERVIEW:

Physical Appearance and Odor:
translucent viscous liquid, odorless.

Warning Statements:

CAUTION! FLAMMABLE HYDROGEN GAS MAY BE RELEASED DURING STORAGE AND ON CONTACT WITH WATER, ALCOHOLS, BASES, ACIDS AND SOME METALLIC SALTS.

B. POTENTIAL HEALTH EFFECTS:

Acute Eye:
Slightly irritating.

Acute Skin:
Low acute dermal toxicity. May cause irritation
Acute Inhalation:
Inhalation not likely.

Acute Ingestion:
Low acute oral toxicity.

Chronic Effects:
This product contains ingredients that are considered to be probable or suspected human carcinogens (see Section 11 - Chronic).

4. FIRST AID MEASURES

FIRST AID MEASURES FOR ACCIDENTAL:

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

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

Inhalation:
Inhalation is not an expected route of exposure. If respiratory irritation or distress occurs remove victim to fresh air. Seek medical attention if respiratory irritation or distress continues.

Ingestion:
If victim is conscious and alert, give 1-2 glasses of water to drink. Do not give anything by mouth to an unconscious person. Seek medical attention. Do not leave victim unattended.

MEDICAL CONDITIONS POSSIBLY AGGRAVATED BY EXPOSURE:
No specific information found.

NOTES TO PHYSICIAN:
All treatments should be based on observed signs and symptoms of distress in the patient. Consideration should be given to the possibility that overexposure to materials other than this product may have occurred.

Treat symptomatically. No specific antidote available.

5. FIRE FIGHTING MEASURES

FIRE HAZARD DATA:

Flash Point:
> 47 C (116 F). Flammability Class: FLAMMABLE.

Method Used:
Closed cup

Flammability Limits (volatile%): Lower:1.4
Upper: 11.3

Extinguishing Media:Recommended: 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.

Hazardous Decomposition Materials (Under Fire Conditions):
formaldehyde
oxides of carbon
silica

6. ACCIDENTAL RELEASE MEASURES

Evacuation Procedures and Safety:
Wear appropriate protective gear for the situation. See Personal Protection information in Section 8. CAUTION: Spilled material may make the floor slippery. Do not leave traces of product on floors, ladders, etc., as this may present a slipping hazard.

Containment of Spill:
Follow procedure described below under Cleanup and Disposal of Spill.

Cleanup and Disposal of Spill:
Absorb with an inert absorbent. Scrape up and place in appropriate closed container (see Section 7: Handling and Storage). 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.

Environmental and Regulatory Reporting:
Do not flush to drain.

7. HANDLING AND STORAGE

Minimum/Maximum Storage Temperatures:
Not Available

Handling:
Avoid breathing vapors and mists. Avoid direct or prolonged contact with

skin and eyes. Keep containers closed when stored and when not being used to avoid premature curing.

Storage:

Store in tightly closed containers. Expected shelf life if stored at recommended temperatures: 12 months. Store in an area that is dry, well-ventilated.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Introductory Remarks:

These recommendations provide general guidance for handling this product. Because specific work environments and material handling practices vary, safety procedures should be developed for each intended application. While developing safe handling procedures, do not overlook the need to clean equipment and piping systems for maintenance and repairs. Waste resulting from these procedures should be handled in accordance with Section 13: Disposal Considerations.

Assistance with selection, use and maintenance of worker protection equipment is generally available from equipment manufacturers.

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.

Exposure Guidelines:

No exposure limits were found for this product or any of its ingredients.

BUTANOL

	NOTES	TWA	STEL
ACGIH		20ppm	
OSHA	C,S	150mg/cu m	
OSHA	C,S	50 ppm	

Engineering Controls:

Where engineering controls are indicated by use conditions or a potential for excessive exposure exists, the following traditional exposure control techniques may be used to effectively minimize employee exposures: general area dilution/exhaust ventilation.

Respiratory Protection:

When respirators are required, select NIOSH/MSHA approved equipment based on actual or potential airborne concentrations and in accordance with the appropriate regulatory standards and/or industrial recommendations.

For reasonably foreseeable industrial end uses of this material, respiratory protection should not be necessary.

Eye/Face Protection:

Eye and face protection requirements will vary dependent upon work environment conditions and material handling practices. 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 (i.e., shirts and pants). Consideration must be given both to durability as well as permeation resistance.

Work Practice Controls:

Personal hygiene is an important work practice exposure control measure and the following general measures should be taken when working with or handling this material:

- C1) Do not store, use, and/or consume foods, beverages, tobacco products, or cosmetics in areas where this material is stored.
- C2) Wash hands and face carefully before eating, drinking, using tobacco, applying cosmetics, or using the toilet.
- C3) Wash exposed skin promptly to remove accidental splashes or contact with this material.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical and Chemical properties here represent typical properties of this product. Contact the business area using the Product Information phone number in Section 1 for its exact specifications.

Physical Appearance:

Off white viscous liquid.

Odor:

Alcohol-like odor

PH:

Not Applicable

Specific Gravity:

1,101 at 25 C (77 F).

Water Solubility:

practically insoluble

Melting Point

Range: Not

Available

Boiling Point

Range: Not

Available

Vapor Pressure:
< 0.01 mmHg at 20 C (68 F)

Vapor
Density: Not
Available

Viscosity:
viscosity (milliPascals seconds) - 11000 mPa.s at 25 C (77 F).

10. STABILITY AND REACTIVITY

Chemical Stability:
This material is stable under normal handling and storage conditions described in Section 7.

Conditions To Be Avoided:
combustible materials
heat
open flame
spark
static electricity

Materials/Chemicals To Be Avoided:
strong oxidizing agents

The Following Hazardous Decomposition Products Might Be

Expected: Decomposition Type: thermal
dimethylcyclosiloxanes
methylphenylcyclosiloxanes

Decomposition Type:
oxidative/thermal formaldehyde

Hazardous Polymerization Will Not Occur.

Avoid The Following To Inhibit Hazardous Polymerization:
not applicable

11. TOXICOLOGICAL INFORMATION

Acute Eye Irritation:

Toxicological Information and
Interpretation eye - eye irritation, **.
slightly-irritating.

Acute Skin Irritation:
No test data found for product.

Acute Dermal Toxicity:
Toxicological Information and Interpretation
LD50 - lethal dose 50% of test species, > 2000 mg/kg, rat.
Data for a similar product.

Acute Respiratory Irritation:
No test data found for product.

Acute Inhalation Toxicity:
No test data found for product.

Acute Oral Toxicity:
Toxicological Information and Interpretation
LD50 - lethal dose 50% of test species, > 2000 mg/kg, rat.
Data for a similar product.

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

12. ECOLOGICAL INFORMATION

Ecotoxicological
Information: No data found
for product.
Chemical Fate
Information: No data found
for product.

13. DISPOSAL CONSIDERATIONS

Waste Disposal Method:
Chemical additions, processing or otherwise altering this material may
make the waste management information presented in this MSDS
incomplete, inaccurate or otherwise inappropriate. Please be advised
that state and local requirements for waste disposal may be more
restrictive or otherwise different from federal laws and regulations.
Consult state and local regulations regarding the proper disposal of
this material.

Container Handling and Disposal:
Any containers or equipment used should be decontaminated immediately
after use.

EPA Hazardous Waste - Yes
EPA RCRA HAZARDOUS WASTE CODES:
"I" Ignitable

14. TRANSPORTATION INFORMATION

Transportation Status: IMPORTANT! Statements below provide

additional data on listed DOT classification.
The listed Transportation Classification does not address regulatory
variations due to changes in package size, mode of shipment or other
regulatory descriptors.

US Department of Transportation
Hazard Class3

Shipping Name:
BUTANOL SOLUTION

ID Number
.....UN1120
Packing Group...III
Labels FLAMMABLE
Emergency
Guide#129

15. REGULATORY INFORMATION

Inventory Status

Inventory	STATUS
UNITED STATES (TSCA)	Y
CANADA (DSL)	Y
EUROPE (EINECS/ELINCS)	P
AUSTRALIA (AICS)	Y
JAPAN (MITI)	N
SOUTH KOREA (KECL)	Y

Y = All ingredients are on the inventory.

E = All ingredients are on the inventory or exempt from listing.

P = One or more ingredients fall under the polymer exemption or are on the no longer polymer list. All other ingredients are on the inventory or exempt from listing.

N = Not determined or one or more ingredients are not on the inventory and are not exempt from listing.

FEDERAL REGULATIONS

Inventory Issues:

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

SARA Title III Hazard

Classes: Fire Hazard - NO

Reactive Hazard - NO

Release of Pressure - NO

Acute Health Hazard -

YES Chronic Health Hazard -

NO

STATE REGULATIONS:

Ingredient: CERCLA/SARA RQ SARA EHS TPQ
BUTANOL 5000 lbs

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

16. OTHER INFORMATION

National Fire Protection Association Hazard Ratings--NFPA(R):

1 Health Hazard Rating--
Slight

1 Flammability Rating
Moderate

1 Instability Rating--
Minimal

National Paint & Coating Hazardous Materials Identification System--HMIS(R):

- 1 Health Hazard Rating-
Slight
- 1 Flammability Rating-
Moderate
- 1 Reactivity Rating-
Minimal

Reason for
Revisions: New
product MSDS.

Key Legend Information:

ACGIH - American Conference of Governmental Industrial Hygienists
OSHA - Occupational Safety and Health Administration
TLV - Threshold Limit Value
PEL - Permissible Exposure Limit
TWA - Time Weighted Average
STEL - Short Term Exposure Limit
NTP - National Toxicology Program
IARC - International Agency for Research on Cancer
ND - Not determined
Bluestar - Bluestar Silicones Established Exposure Limits

Disclaimer:

The information herein is given in good faith but no warranty,
expressed or implied, is made.

****End Of MSDS Document****



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Material Safety Data Sheet A-3240 B

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In Case of Emergency Contact 928-537-8387 Factor II, Inc. 8am-4pm MST
928-242-1308 Evenings or Weekends

Chemical Name or Synonym:

CURING AGENT PART OF A ROOM TEMPERATURE VULCANIZING SILICONE ELASTOMER

2. COMPOSITION/INFORMATION ON INGREDIENTS

Component	CAS Reg Number	OSHA Hazard	Percentage
POLYORGANOSILOXANES	*****	N	
METHYLHYDROGEN POLYSILOXANE	63148-57-2	y	10 - 30
SILOXANES AND SILICONES, DI-ME, HYDROGEN-TERM INATED	70900-21-9	y	5 - 10

3. HAZARDS IDENTIFICATION

A. EMERGENCY OVERVIEW:

Physical Appearance and Odor:

translucent viscous liquid, odorless.

Warning Statements:

CAUTION! FLAMMABLE HYDROGEN GAS MAY BE RELEASED DURING STORAGE AND ON CONTACT WITH WATER, ALCOHOLS, BASES, ACIDS AND SOME METALLIC SALTS.

B. POTENTIAL HEALTH EFFECTS:

Acute Eye:

Slightly irritating.

Acute Skin:
Low acute dermal toxicity. Non-irritating.

Acute Inhalation:
Inhalation not likely.

Acute Ingestion:
Low acute oral toxicity.

Chronic Effects:
This product contains ingredients that are considered to be probable or suspected human carcinogens (see Section 11 - Chronic).

4. FIRST AID MEASURES

FIRST AID MEASURES FOR ACCIDENTAL:

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

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

Inhalation:
Inhalation is not an expected route of exposure. If respiratory irritation or distress occurs remove victim to fresh air. Seek medical attention if respiratory irritation or distress continues.

Ingestion:
If victim is conscious and alert, give 1-2 glasses of water to drink. Do not give anything by mouth to an unconscious person. Seek medical attention. Do not leave victim unattended.

MEDICAL CONDITIONS POSSIBLY AGGRAVATED BY EXPOSURE:
No specific information found.

NOTES TO PHYSICIAN:
All treatments should be based on observed signs and symptoms of distress in the patient. Consideration should be given to the possibility that overexposure to materials other than this product may have occurred.

Treat symptomatically. No specific antidote available.

5. FIRE FIGHTING MEASURES

FIRE HAZARD DATA:

Flash Point:

> 130 C (266 F). Flammability Class: WILL BURN.

Method Used:

Closed cup

Flammability Limits (volatile%):

Lower:4

Upper: 74

Extinguishing Media:Recommended: 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.

Hazardous Decomposition Materials (Under Fire Conditions):

hydrogen

formaldehyde

oxides of carbon

silica

Autoignition Temperature:

> 400 C (752 F)

6. ACCIDENTAL RELEASE MEASURES

Evacuation Procedures and Safety:

Wear appropriate protective gear for the situation. See Personal Protection information in Section 8. CAUTION: Spilled material may make the floor slippery. Do not leave traces of product on floors, ladders, etc., as this may present a slipping hazard.

Containment of Spill:

Follow procedure described below under Cleanup and Disposal of Spill.

Cleanup and Disposal of Spill:

Absorb with an inert absorbent. Scrape up and place in appropriate closed container (see Section 7: Handling and Storage). 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.

Environmental and Regulatory Reporting:

Do not flush to drain.

7. HANDLING AND STORAGE

Minimum/Maximum Storage Temperatures:
Not Available

Handling:

Avoid breathing vapors and mists. Avoid direct or prolonged contact with skin and eyes. Keep containers closed when stored and when not being used to avoid premature curing.

Storage:

Store in tightly closed containers. Expected shelf life if stored at recommended temperatures: 12 months. Store in an area that is dry, well-ventilated.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Introductory Remarks:

These recommendations provide general guidance for handling this product. Because specific work environments and material handling practices vary, safety procedures should be developed for each intended application. While developing safe handling procedures, do not overlook the need to clean equipment and piping systems for maintenance and repairs. Waste resulting from these procedures should be handled in accordance with Section 13: Disposal Considerations.

Assistance with selection, use and maintenance of worker protection equipment is generally available from equipment manufacturers.

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.

Exposure Guidelines:

No exposure limits were found for this product or any of its ingredients.

Engineering Controls:

Where engineering controls are indicated by use conditions or a potential for excessive exposure exists, the following traditional exposure control techniques may be used to effectively minimize employee exposures: general area dilution/exhaust ventilation.

Respiratory Protection:

When respirators are required, select NIOSH/MSHA approved equipment based on actual or potential airborne concentrations and in accordance with the appropriate regulatory standards and/or industrial recommendations.

For reasonably foreseeable industrial end uses of this material, respiratory protection should not be necessary.

Eye/Face Protection:

Eye and face protection requirements will vary dependent upon work environment conditions and material handling practices. 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 (i.e., shirts and pants). Consideration must be given both to durability as well as permeation resistance.

Work Practice Controls:

Personal hygiene is an important work practice exposure control measure and the following general measures should be taken when working with or handling this material:

- C1) Do not store, use, and/or consume foods, beverages, tobacco products, or cosmetics in areas where this material is stored.
- C2) Wash hands and face carefully before eating, drinking, using tobacco, applying cosmetics, or using the toilet.
- C3) Wash exposed skin promptly to remove accidental splashes or contact with this material.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical and Chemical properties here represent typical properties of this product. Contact the business area using the Product Information phone number in Section 1 for its exact specifications.

Physical Appearance:

translucent viscous liquid.

Odor:

odorless.

PH:

Not Applicable

Specific Gravity:

1 at 25 C (77 F).

Water Solubility:

practically insoluble

Melting Point Range:

Not Available

Boiling Point Range:

Not Available

Vapor Pressure:
< 0.01 mmHg at 20 C (68 F)

Vapor Density:
Not Available

Viscosity:
viscosity (milliPascals seconds) - 8000 mPa.s at 25 C (77 F).

10. STABILITY AND REACTIVITY

Chemical Stability:
This material is stable under normal handling and storage conditions described in Section 7.

Conditions To Be Avoided:
combustible materials
heat
open flame
spark
static electricity

Materials/Chemicals To Be Avoided:
caustic soda
strong oxidizing agents
metal salts

The Following Hazardous Decomposition Products Might Be Expected:

Decomposition Type: thermal
hydrogen
dimethylcyclosiloxanes
methylphenylcyclosiloxanes

Decomposition Type: oxidative/thermal
formaldehyde

Hazardous Polymerization Will Not Occur.

Avoid The Following To Inhibit Hazardous Polymerization:
not applicable

11. TOXICOLOGICAL INFORMATION

Acute Eye Irritation:

Toxicological Information and Interpretation
eye - eye irritation, **.
Non-irritating.

Acute Skin Irritation:
No test data found for product.

Acute Dermal Toxicity:

Toxicological Information and Interpretation

LD50 - lethal dose 50% of test species, > 2000 mg/kg, rat.

Data for a similar product.

Acute Respiratory Irritation:

No test data found for product.

Acute Inhalation Toxicity:

No test data found for product.

Acute Oral Toxicity:

Toxicological Information and Interpretation

LD50 - lethal dose 50% of test species, > 2000 mg/kg, rat.

Data for a similar product.

Chronic Toxicity:

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

12. ECOLOGICAL INFORMATION

Ecotoxicological Information:

No data found for product.

Chemical Fate Information:

No data found for product.

13. DISPOSAL CONSIDERATIONS

Waste Disposal Method:

Chemical additions, processing or otherwise altering this material may make the waste management information presented in this MSDS incomplete, inaccurate or otherwise inappropriate. Please be advised that state and local requirements for waste disposal may be more restrictive or otherwise different from federal laws and regulations. Consult state and local regulations regarding the proper disposal of this material.

Container Handling and Disposal:

Any containers or equipment used should be decontaminated immediately after use.

EPA Hazardous Waste - NO

14. TRANSPORTATION INFORMATION

Transportation Status: IMPORTANT! Statements below provide additional data on listed DOT classification.

The listed Transportation Classification does not address regulatory variations due to changes in package size, mode of shipment or other regulatory descriptors.

US Department of Transportation

Shipping Name:

NOT REGULATED

15. REGULATORY INFORMATION

Inventory Status

Inventory	STATUS
UNITED STATES (TSCA)	Y
CANADA (DSL)	Y
EUROPE (EINECS/ELINCS)	P
AUSTRALIA (AICS)	Y
JAPAN (MITI)	Y
SOUTH KOREA (KECL)	Y

Y = All ingredients are on the inventory.

E = All ingredients are on the inventory or exempt from listing.

P = One or more ingredients fall under the polymer exemption or are on the no longer polymer list. All other ingredients are on the inventory or exempt from listing.

N = Not determined or one or more ingredients are not on the inventory and are not exempt from listing.

FEDERAL REGULATIONS

Inventory Issues:

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

SARA Title III Hazard Classes:

Fire Hazard	- NO
Reactive Hazard	- YES
Release of Pressure	- NO
Acute Health Hazard	- YES
Chronic Health Hazard	- NO

STATE REGULATIONS:

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

16. OTHER INFORMATION

National Fire Protection Association Hazard Ratings--NFPA(R):

- 1 Health Hazard Rating--Slight
- 1 Flammability Rating--Slight
- 1 Instability Rating--Slight

National Paint & Coating Hazardous Materials Identification System--HMIS(R):

- 1 Health Hazard Rating--Slight
- 1 Flammability Rating--Slight
- 1 Reactivity Rating--Slight

Reason for Revisions:

New product MSDS.

Key Legend Information:

ACGIH - American Conference of Governmental Industrial Hygienists

OSHA - Occupational Safety and Health Administration

TLV - Threshold Limit Value

PEL - Permissible Exposure Limit

TWA - Time Weighted Average

STEL - Short Term Exposure Limit

NTP - National Toxicology Program

IARC - International Agency for Research on Cancer

ND - Not determined

Bluestar - Bluestar Silicones Established Exposure Limits

Disclaimer:

The information herein is given in good faith but no warranty, expressed or implied, is made.

End Of MSDS Document