

DETAILED SAFETY DATA SHEET

SOLIDFLOOR PU - Part A



1. IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND OF THE COMPANY / UNDERTAKING

Product Name	: SOLIDFLOOR EP (SF) - Part A
Intended Use	: Solvent Free Epoxy Floor Coatings
Manufacturer	: Solid Green Tech Solutions Sdn. Bhd. Lot 772 (10-14), Jalan Subang 4 Kawasan Perindustrian Sg. Penaga 47620 Subang Jaya, Selangor, Malaysia
Emergency Phone Number	: +(60) 3 8081 4777 / 4776
Fax Numbers	: +(60) 3 8081 4771

2. HAZARDS IDENTIFICATION

CLASSIFICATION

Skin Irrit. 2	: Causes skin irritation.
Skin Sens. 1	: May cause sensitization by skin contact.
Eye Irrit. 2	: Causes serious eye irritation.
Aquatic Chronic 2	: Toxic to aquatic life with long lasting effects.

HAZARD STATEMENTS

H315	Causes skin irritation
H319	Causes serious eye irritation
H317	May cause allergic skin reaction
H411	Toxic to aquatic life with long lasting effects.

PRECAUTIONARY STATEMENTS

P280	Wear protective gloves/ protective clothing / face protection with 3 ply face mask .
P313+P333	If skin irritation or rash occurs: Get medical advice attention.
P313+P337	If eye irritation persists: Get medical advice attention.
P273	Avoid release to the environment.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	CAS No.	%
Silica Flour	14808-60-7	22%
Calcium Carbonate	1317-65-3	7%
Color pigment	Mixture	2%
Epoxy resin (Molecular Weight <700)	25068-38-6	64%
Alkyl Glycidyl Ether	68609-97-2	5%

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SOLIDFLOOR EP (SF) - Part A

4. FIRST-AID MEASURES

Inhalation

- Remove to fresh air. If breathing has stopped, institute artificial respiration. Seek medical advice if symptoms persist.

Skin Contact

- Wash skin thoroughly with soap and water. Remove contaminated clothing. If symptoms persist, seek medical advice.

Eye Contact

- Rinse eyes thoroughly with water for at least 15 minutes, and seek medical advice.

Ingestion

- Do not induce vomiting. Dilute with water. Seek medical examination immediately.

5. FIRE FIGHTING MEASURES

Extinguishing Media

- In case of fire, use water spray (fog) foam, dry chemical, or CO2.

Fire Fighting Instruction

- Fire fighters should wear self-contained breathing apparatus and full protective gear.

Self Ignition

- Not self igniting.

6. ACCIDENTAL RELEASE MEASURES

Personal Precaution

- Use personal protective equipment.

Environmental Precaution

- Do not allow to enter drains or waterways, do not discharge into the subsoil / soil.

Methods for Cleaning Up

- Take up with absorbent materials (e.g: sand, universal binder). Dispose of as hazardous waste.

7. HANDLING AND STORAGE

Handling

- Ensure adequate ventilation at the workplace. Avoid open flames and sources of ignition.

Storage

- Keep away from food and drink. Store in a cool dry area and keep container tightly sealed.

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SOLIDFLOOR EP (SF) - Part A

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering Control

- Use with adequate general and local exhaust ventilation.

Hygiene Measure

- Do not eat, drink, smoke or drug taking in work place. Wash hands before break or after work.

Respiratory Protection

- General room ventilation is normal adequate.

Hand Protection

- Chemical resistance gloves / PVC gloves.

Eye /face Protection

- Safety goggles with 3 ply face mask.

Skin Protection

- Light protective clothing.

9. PHYSICAL AND CHEMICAL PROPERTIES

<i>Odour</i>	: Characteristic mild
<i>Chemical Type</i>	: Liquid
<i>Flammability</i>	: Does not ignite
<i>Boiling Point</i>	: No data available
<i>Melting Point</i>	: No data available
<i>Explosion hazard</i>	: Not explosive
<i>Vapour Pressure (25°C)</i>	: No data available
<i>Solubility (25°C)</i>	: Soluble in water
<i>Relative Density</i>	: 1.2 - 1.5
<i>Flash Point</i>	: >140°C

10. STABILITY AND REACTIVITY

Stability

- Stable. Avoid static electricity discharge.

Hazardous Polymerization

- Will not occur. Avoid strong acid, strong base and amines.

Hazardous reactions

- In fire toxic fume may be generated.

DETAILED SAFETY DATA SHEET

SOLIDFLOOR EP (SF) - Part A

11. TOXICOLOGICAL INFORMATION

Toxicological information on this product or its components appear in this section when such data is available.

Acute toxicity

Acute oral toxicity

- > Very low toxicity if swallowed. Harmful effects not anticipated from swallowing small amounts.
- > LD50, Rat, > 15,000 mg / kg

Acute dermal toxicity

- > Prolonged skin contact is unlikely to result in absorption of harmful amounts.
- > LD50, Rabbit, 23,000 mg / kg

Acute inhalation toxicity

- > At room temperature, exposure to vapor is minimal due to low volatility. Vapor from heated material, mist or aerosols may cause respiratory irritation.
- > The LC50 has not been determined.

Skin corrosion/irritation

- > Prolonged contact may cause skin irritation with local redness.
- > Repeated contact may cause skin irritation with local redness.

Serious eye damage/eye irritation

- > May cause eye irritation.
- > Corneal injury is unlikely.

Sensitization

For similar material(s):

- > Has caused allergic skin reactions in humans.
- > Has demonstrated the potential for contact allergy in mice.
- > For respiratory sensitization:
- > No relevant data found.

Specific Target Organ Systemic Toxicity (Single Exposure)

- > Evaluation of available data suggests that this material is not an STOT-SE toxicant.

Specific Target Organ Systemic Toxicity (Repeated Exposure)

- > Except for skin sensitization, repeated exposures to low molecular weight epoxy resins of this type are not anticipated to cause any significant adverse effects.

12. ECOLOGICAL INFORMATION

Ecotoxicological information on this product or its components appear in this section when such data is available.

Ecotoxicity

Acute toxicity to fish

- > Material is toxic to aquatic organisms (LC50 / EC50 / IC50 between 1 and 10 mg / l in the most sensitive species).
- > LC50, *Oncorhynchus mykiss* (rainbow trout), semi-static test, 96 Hour, 2 mg / l

Acute toxicity to aquatic invertebrates

- > EC50, *Daphnia magna* (Water flea), static test, 48 Hour, 1.8 mg / l

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SOLIDFLOOR EP (SF) - Part A

Acute toxicity to algae/aquatic plants

- > ErC50, Scenedesmus capricornutum (fresh water algae), static test, 72 Hour, Growth rate inhibition, 11 mg / l

Toxicity to bacteria

- > IC50, Bacteria, 18 Hour, Respiration rates., > 42.6 mg / l

Chronic aquatic toxicity

Chronic toxicity to aquatic invertebrates

- > MATC (Maximum Acceptable Toxicant Level), Daphnia magna (Water flea), semi-static test, 21 d, number of offspring, 0.55 mg / l

Bioaccumulative potential

Bioaccumulation

- > Bioconcentration potential is moderate (BCF between 100 and 3000 or Log Pow between 3 and 5).

Partition coefficient

- > n-octanol / water (log Pow): 3.242 at 25 °C Estimated.

13. DISPOSAL CONSIDERATIONS

Product

- > In accordance with local authority regulations, take to special waste incineration plant.

Contaminated Packaging

- > If empty contaminated containers are recycled or disposed of, the receiver must inform about possible hazards.

14. TRANSPORT INFORMATION

- > ADR-UN number : 3082
- > ADR-Class : 9, III
- > ADR-Upper number : 90
- > ADR-Shipping Name : Materia pericolosa per l'ambiente, liquida, n.a.s. (poliammina alifatica)
- > ADR-Packing Group : III
- > IATA-Un number : 3082
- > IATA-Class : 9
- > IATA-Technical name : Environmentally hazardous substance, liquid, n.o.s. (aliphatic polyamine)
- > IATA-Packing group : III
- > IMDG-Un number : 3082
- > IMDG-Class : 8
- > IMDG-Technical name : Environmentally hazardous substance, liquid, n.o.s. (aliphatic polyamine)
- > IMDG-Packing group : III

15. REGULATORY INFORMATION

Workplace Safety and Health Act & Workplace Safety and Health (General Provisions) Regulations

This product is subject to the SDS, labeling, PEL and other requirements in the Act/Regulations.

Workplace Classification

This product is classified as hazardous according to Singapore Standards, Act and Regulations.

The following statutes, regulations and standards have the related prescribes on chemicals in terms of safe use, storage, transportation, loading and unloading, classification and symbol etc.

Workplace Safety and Health Act & Workplace Safety and Health (General Provisions) Regulations

DETAILED SAFETY DATA SHEET

SOLIDFLOOR EP (SF) - Part A

Workplace Safety and Health Act & Workplace Safety and Health (General Provisions) Regulations

Environmental Protection and Management Act and Environmental Protection and Management (Hazardous Substances) Regulations

Chemical Weapons Prohibition Act

Fire Safety Act and Fire Safety (Petroleum and Flammable Materials) Regulations

16. OTHER INFORMATION

NONE

The information is based on our current level of knowledge and relates to the products in the states in which it is delivered. It is intended to describe our products from the point of view of safety requirements and is not intended to guarantee any particular properties.

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FACTORY OFFICE

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Wall Finishing System

DETAILED SAFETY DATA SHEET

SOLIDFLOOR PU - Part B



1. IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND OF THE COMPANY / UNDERTAKING

Product Name	: SOLIDFLOOR EP (SF) - Part B
Intended Use	: Solvent Free Epoxy Floor Coatings
Manufacturer	: Solid Green Tech Solutions Sdn. Bhd. Lot 772 (10-14), Jalan Subang 4 Kawasan Perindustrian Sg. Penaga 47620 Subang Jaya, Selangor, Malaysia
Emergency Phone Number	: +(60) 3 8081 4777 / 4776
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2. HAZARDS IDENTIFICATION

CLASSIFICATION

Skin Irrit. 2	: Causes skin irritation.
Skin Sens. 1	: May cause sensitization by skin contact.
Eye Irrit. 2	: Causes serious eye irritation.
Aquatic Chronic 2	: Toxic to aquatic life with long lasting effects.

HAZARD STATEMENTS

H315	Causes skin irritation
H319	Causes serious eye irritation
H317	May cause allergic skin reaction
H411	Toxic to aquatic life with long lasting effects.

PRECAUTIONARY STATEMENTS

P280	Wear protective gloves/ protective clothing / face protection with 3 ply face mask.
P313+P333	If skin irritation or rash occurs: Get medical advice attention.
P313+P337	If eye irritation persists: Get medical advice attention.
P273	Avoid release to the environment.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	CAS No.	%
Polyamide Adduct	63428-84-2	100

DETAILED SAFETY DATA SHEET

SOLIDFLOOR EP (SF) - Part B

4. FIRST-AID MEASURES

Inhalation

- Remove to fresh air. If breathing has stopped, institute artificial respiration. Seek medical advice if symptoms persist.

Skin Contact

- Wash skin thoroughly with soap and water. Remove contaminated clothing. If symptoms persist, seek medical advice.

Eye Contact

- Rinse eyes thoroughly with water for at least 15 minutes, and seek medical advice.

Ingestion

- Do not induce vomiting. Dilute with water. Seek medical examination immediately.

5. FIRE FIGHTING MEASURES

Extinguishing Media

- In case of fire, use water spray (fog) foam, dry chemical, or CO₂.

Fire Fighting Instruction

- Fire fighters should wear self-contained breathing apparatus and full protective gear.

Self Ignition

- Not self igniting.

Flash Point

>120°C

6. ACCIDENTAL RELEASE MEASURES

Personal Precaution

- Use personal protective equipment.

Environmental Precaution

- Do not allow to enter drains or waterways, do not discharge into the subsoil / soil.

Methods for Cleaning Up

- Take up with absorbent materials (e.g: sand, universal binder). Dispose of as hazardous waste.

7. HANDLING AND STORAGE

Handling

- Ensure adequate ventilation at the workplace. Avoid open flames and sources of ignition.

Storage

- Keep away from food and drink. Store in a cool dry area and keep container tightly sealed.

DETAILED SAFETY DATA SHEET

SOLIDFLOOR EP (SF) - Part B

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering Control

- > Use with adequate general and local exhaust ventilation.

Hygiene Measure

- > Do not eat, drink, smoke or drug taking in work place. Wash hands before break or after work.

Respiratory Protection

- > General room ventilation is normal adequate.

Hand Protection

- > Chemical resistance gloves /PVC gloves.

Eye /face Protection

- > Safety goggles with 3 ply face mask.

Skin Protection

- > Light protective clothing.

9. PHYSICAL AND CHEMICAL PROPERTIES

<i>Odour</i>	: Characteristic mild
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<i>Melting Point</i>	: No data available
<i>Explosion hazard</i>	: Not explosive
<i>Vapour Pressure (25°C)</i>	: No data available
<i>Solubility (25°C)</i>	: Soluble in water
<i>Relative Density</i>	: 1.2 - 1.5
<i>Flash Point</i>	: >110°C

10. STABILITY AND REACTIVITY

Stability

- > Stable. Avoid static electricity discharge.

Hazardous Polymerization

- > Will not occur. Avoid strong acid, strong base and amines.

Hazardous reactions

- > In fire toxic fume may be generated.

DETAILED SAFETY DATA SHEET

SOLIDFLOOR EP (SF) - Part B

11. TOXICOLOGICAL INFORMATION

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Specific Target Organ Systemic Toxicity (Repeated Exposure)

- > Except for skin sensitization, repeated exposures to low molecular weight epoxy resins of this type are not anticipated to cause any significant adverse effects.

12. ECOLOGICAL INFORMATION

Adopt good working practices, so that the product is not released into the environment.

List of substances dangerous for the environment and corresponding classification:

< 5% 3-aminomethyl-3, 5, 5-trimethylcyclohexylamine

N.67 / 548 / CEE: 612-067-00-9 CAS: 2855-13-2 EINECS: 220-666-8

52 / 53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

< 5% 1, 3-Bis (aminometil) benzene (MXDA)

CAS: 1477-55-0 EINECS: 216-032-5

R52 / 53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

LC (50) trota arcobaleno / 96h: >100 mg / l

EC (50) daphnia / 48h : 16 mg / l

DETAILED SAFETY DATA SHEET

SOLIDFLOOR EP (SF) - Part B

13. DISPOSAL CONSIDERATIONS

Product

- > In accordance with local authority regulations, take to special waste incineration plant.

Contaminated Packaging

- > If empty contaminated containers are recycled or disposed of, the receiver must inform about possible hazards.

14. TRANSPORT INFORMATION

- > ADR-UN number : 3082
- > ADR-Class : 9, III
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- > IMDG-Technical name : Environmentally hazardous substance, liquid, n.o.s. (aliphatic polyamine)
- > IMDG-Packing group : III

15. REGULATORY INFORMATION

Symbols

- > N Dangerous for the environment
- > Xi Irritant

R Phrases

- > R51 / 53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
- > R36 / 38 Irritating to eyes and skin.
- > R43 May cause sensitization by skin contact.

S Phrases

- > S51 Use only in well-ventilated areas.
- > S61 Avoid release to the environment. Refer to special instructions / Safety data sheets.
- > S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
- > S24 / 25 Avoid contact with skin and eyes.
- > S37 Wear suitable gloves.

Contents

- > 3-aminomethyl-3,5,5-trimethylcyclohexylamine

Where applicable, refer to the following regulatory provisions :

DETAILED SAFETY DATA SHEET

SOLIDFLOOR EP (SF) - Part B

16. OTHER INFORMATION

Main bibliographic sources:

ECDIN - Environmental Chemicals Data and Information Network - Joint Research Centre, Commission of the European Communities

SAX's DANGEROUS PROPERTIES OF INDUSTRIAL MATERIALS - Eight Edition - Van Nostrand Reinold

ACGIH - Treshold Limit Values - 1997 edition

The information contained herein is based on our state of knowledge at the above-specified date. It refers solely to the product indicated and constitutes no guarantee of particular quality. It is the duty of the user to ensure that this information is appropriate and complete with respect to the specific use intended.

This SDS cancels and replaces any preceding release.

Phrases R used in paragraph 2:

R21 / 22 Harmful in contact with skin and if swallowed.

R34 Causes burns.

R43 May cause sensitization by skin contact.

R52 / 53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

R20 / 22 Harmful by inhalation and if swallowed.

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**SOLID GREEN TECH
SOLUTIONS SDN. BHD.**
(Co.No.1018765-P)

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