

# Safety Data Sheet

Issue Date: 09-Oct-2023

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Version 1

# **1. IDENTIFICATION**

<u>Product identifier</u> Product Name	FlakeShield Fast Cure 6H – Part B
Other means of identification SDS #	RESIN-017
	SKU: RFFSFCB
UN/ID No	UN3267
Recommended use of the chemical	
Recommended Use	Moisture Vapor Barrier Fast-Cure Epoxy Coating.
Details of the supplier of the safety	data sheet_
Supplier Address	
Resinforce Products LLC	
12 Pixley Industrial Parkway Rochester, NY 14624	
Phone: (585) 623-5075	
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#### Emergency telephone number Emergency Telephone

INFOTRAC 1-352-323-3500 (International) 1-800-535-5053 (North America)

# 2. HAZARDS IDENTIFICATION

Appearance Amber liquid

Physical state Liquid

# **Classification**

Acute toxicity - Inhalation (Dusts/Mists)	Category 4
Skin corrosion/irritation	Category 1 Sub-category B
Serious eye damage/eye irritation	Category 1
Respiratory sensitization	Category 1
Skin sensitization	Category 1

#### <u>Signal Word</u> Danger

# Hazard statements

Harmful if inhaled Causes severe skin burns and eye damage May cause allergy or asthma symptoms or breathing difficulties if inhaled May cause an allergic skin reaction



#### Precautionary Statements - Prevention

Use only outdoors or in a well-ventilated area Do not breathe dust/fume/gas/mist/vapors/spray Wash face, hands and any exposed skin thoroughly after handling Wear protective gloves/protective clothing/eye protection/face protection In case of inadequate ventilation wear respiratory protection Contaminated work clothing must not be allowed out of the workplace

#### **Precautionary Statements - Response**

Immediately call a poison center or doctor/physician IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing Immediately call a poison center or doctor/physician IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower Wash contaminated clothing before reuse If skin irritation or rash occurs: Get medical advice/attention IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing Immediately call a poison center or doctor/physician IF SWALLOWED: Rinse mouth. Do NOT induce vomiting

#### Precautionary Statements - Storage

Store locked up

#### **Precautionary Statements - Disposal**

Dispose of contents/container to an approved waste disposal plant

#### Other hazards

Harmful to aquatic life with long lasting effects

#### **3. COMPOSITION/INFORMATION ON INGREDIENTS**

Chemical name	CAS No	Weight-%
Alkyl Phenol polyamine	Proprietary	80-100
Benzyl alcohol	100-51-6	1-10
Diethylene triamine	111-40-0	2-4
Ethylene diamine	107-15-3	1-3

\*\*If Chemical Name/CAS No is "proprietary" and/or Weight-% is listed as a range, the specific chemical identity and/or percentage of composition has been withheld as a trade secret.\*\*

# **4. FIRST AID MEASURES**

#### Description of first aid measures

General Advice	Immediately call a poison center or doctor/physician.
Eye Contact	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a poison center or doctor/physician.
Skin Contact	Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Wash contaminated clothing before reuse. If skin irritation or rash occurs: Get medical advice/attention.
Inhalation	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a poison center or doctor/physician.
Ingestion	Rinse mouth. Do NOT induce vomiting.

#### Most important symptoms and effects, both acute and delayed

**Symptoms** Harmful if inhaled. Causes severe skin burns and eye damage. May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause allergic skin reaction.

#### Indication of any immediate medical attention and special treatment needed

Notes to Physician

Treat symptomatically.

# 5. FIRE-FIGHTING MEASURES

#### Suitable Extinguishing Media

In case of fire: water fog, foam, dry chemical powder, carbon dioxide (CO2).

#### Unsuitable Extinguishing Media Water jet.

#### Specific Hazards Arising from the Chemical

During fire, nitrous gases, fumes/smoke, isocyanates and vapor may be formed.

#### Protective equipment and precautions for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

# 6. ACCIDENTAL RELEASE MEASURES

#### Personal precautions, protective equipment and emergency procedures

**Personal Precautions** Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Keep upwind. Keep out of low areas. Wear appropriate protective equipment and clothing during clean- up. Do not breathe mist or vapor. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Local authorities should be advised if significant spillage cannot be contained. For personal protection, see section 8 of the SDS.

#### Environmental precautions

**Environmental precautions** See Section 12 for additional Ecological Information.

#### Methods and material for containment and cleaning up

Methods for Containment Prevent further leakage or spillage if safe to do so.

Methods for Clean-UpLarge Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where<br/>this is possible. Absorb spillage to prevent material damage. Use a non-combustible<br/>material like vermiculite, sand or earth to soak up the product and place into a container for<br/>later disposal. Following product recovery, flush area with water. Small spills: Wipe up with<br/>absorbent material. Clean surface thoroughly to remove residual contamination. Never<br/>return spills to original containers for re-use.

# 7. HANDLING AND STORAGE

#### Precautions for safe handling

Advice on Safe HandlingUse only outdoors or in a well-ventilated area. Do not breathe<br/>dust/fume/gas/mist/vapors/spray. Wash face, hands and any exposed skin thoroughly after<br/>handling. Wear protective gloves/protective clothing and eye/face protection. In case of<br/>inadequate ventilation wear respiratory protection. Contaminated work clothing must not be<br/>allowed out of the workplace.

#### Conditions for safe storage, including any incompatibilities

Storage Conditions Store locked up.

Incompatible Materials Strong oxidizing agents. Acids.

# 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Exposure Guidelines

Chemical name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Diethylene triamine	TWA: 1 ppm	(vacated) TWA: 1 ppm	TWA: 1 ppm
111-40-0	S*	(vacated) TWA: 4 mg/m <sup>3</sup>	TWA: 4 mg/m <sup>3</sup>
Ethylene diamine	TWA: 10 ppm	TWA: 10 ppm	IDLH: 1000 ppm
107-15-3	S*	TWA: 25 mg/m <sup>3</sup>	TWA: 10 ppm
		(vacated) TWA: 10 ppm	TWA: 25 mg/m <sup>3</sup>
		(vacated) TWA: 25 mg/m <sup>3</sup>	-

#### Appropriate engineering controls

**Engineering Controls** Local exhaust ventilation required. Make up air should be supplied to balance air that is removed by local or general exhaust ventilation. Provide sufficient ventilation to keep vapors below permissible exposure limit. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Ensure all national/local regulations are observed.

#### Individual protection measures, such as personal protective equipment

Eye/Face Protection	Use tightly sealed goggles or safety glasses with side shields which are resistant to Chemicals. Refer to 29 CFR 1910.133 for eye and face protection regulations.
Skin and Body Protection	Wear chemical resistant protection gloves. Wear impervious clothing as necessary to protect against coming in contact with product. Refer to 29 CFR 1910.138 for appropriate skin and body protection.
Respiratory Protection	If insufficient ventilation, wear respiratory protection. Refer to 29 CFR 1910.134 for respiratory protection requirements.
General Hygiene Consideratio	<b>ns</b> Do not eat, drink or smoke during work. Avoid all contact with skin or eye. If clothing comes into contact with material, do not allow out of the workplace. Clean hands and any exposed skin thoroughly after work and before breaks.

# 9. PHYSICAL AND CHEMICAL PROPERTIES

# Information on basic physical and chemical properties

Physical state Appearance Color	Liquid Amber liquid Amber	Odor Odor Threshold	Not determined Not determined
<u>Property</u> pH Melting point / freezing point Initial boiling point and boiling range	<u>Values</u> No data available No data available No data available	<u>Remarks • Method</u>	
Flash point	>93 °C / >199.4		
Evaporation Rate Flammability (Solid, Gas) Flammability Limit in Air	Not determined Liquid-Not applicable		
Upper flammability or explosive limits	No data available		
Lower flammability or explosive limits	No data available		
Vapor Pressure	Not determined		
Vapor Density Relative Density Water Solubility	No data available 0.9-1.0 Partially soluble		
Solubility in other solvents Partition Coefficient	Not determined Not determined		
Autoignition temperature Hyphen Kinematic viscosity Dynamic Viscosity Explosive Properties Oxidizing Properties	No data available Not determined Not determined Not determined Not determined Not determined		

# **10. STABILITY AND REACTIVITY**

#### Reactivity

Not reactive under normal conditions.

#### Chemical stability

Stable under recommended storage conditions.

#### Possibility of hazardous reactions

This product will polymerize if mixed with an epoxy resin. Considerable heat can evolve.

#### Conditions to Avoid

Avoid temperatures exceeding the flash point. Epoxy resins under uncontrolled conditions.

## Incompatible materials

Strong oxidizing agents. Acids.

#### Hazardous decomposition products

None known based on information supplied.

# **11. TOXICOLOGICAL INFORMATION**

#### Information on likely routes of exposure

Product Information	
Eye Contact	Avoid contact with eyes.
Skin Contact	Avoid contact with skin.
Inhalation	Harmful if inhaled.
Ingestion	Do not ingest.

### **Component Information**

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Benzyl alcohol 100-51-6	= 1230 mg/kg (Rat)	= 2 g/kg (Rabbit)	> 4178 mg/m³ (Rat)4 h
Diethylene triamine 111-40-0	= 1080 mg/kg (Rat)	= 672 mg/kg (Rabbit)	= 70 mg/L (Rat)4 h
Ethylene diamine 107-15-3	= 637 mg/kg (Rat)	= 560 mg/kg (Rabbit)	= 14.7 mg/L (Rat)4 h

# Symptoms related to the physical, chemical and toxicological characteristics

Symptoms	Please see section 4 of this SDS for symptoms.
Delayed and immediate effects as v	well as chronic effects from short and long-term exposure
Skin corrosion/irritation	Causes severe skin burns.
Serious eye damage/eye irritation	Causes severe eye damage.
Sensitization	May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause an allergic skin reaction.
Carcinogenicity	Based on the information provided, this product does not contain any carcinogens or potential carcinogens as listed by OSHA, IARC or NTP.
Numerical measures of toxicity	
The following values are calculated	I based on chapter 3.1 of the GHS document
Oral LD50	6,044.70 mg/kg
Dermal LD50	8,800.00 mg/kg
Gas	7,000.00 ppm
ATEmix (inhalation-dust/mist)	1.21 mg/l

# 12. ECOLOGICAL INFORMATION

# **Ecotoxicity**

Harmful to aquatic life with long lasting effects.

## **Component Information**

Chemical name	Algae/aquatic plants	Fish	Crustacea

Benzyl alcohol		LC50: =460mg/L (96h, Pimephales	EC50: =23mg/L (48h, water flea)
100-51-6		promelas)	
		LC50: =10mg/L (96h, Lepomis	
		macrochirus)	
Diethylene triamine	EC50: =1164mg/L (72h,	LC50: =248mg/L (96h, Poecilia	EC50: =16mg/L (48h, Daphnia
111-40-0	Pseudokirchneriella subcapitata)	reticulata)	magna)
	EC50: =345.6mg/L (96h,	LC50: =1014mg/L (96h, Poecilia	- /
	Pseudokirchneriella subcapitata)	reticulata)	
	EC50: =592mg/L (96h,		
	Desmodesmus subspicatus)		
Ethylene diamine	EC50: =645mg/L (72h,	LC50: 98.6 - 131.6mg/L (96h,	EC50: =17mg/L (48h, Daphnia
107-15-3	Pseudokirchneriella subcapitata)	Pimephales promelas)	magna)
	EC50: =151mg/L (96h,	LC50: 191 - 254mg/L (96h,	
	Pseudokirchneriella subcapitata)	Pimephales promelas)	
		LC50: =115.7mg/L (96h,	
		Pimephales promelas)	
		LC50: 180 - 560mg/L (96h, Poecilia	
		reticulata)	

#### Persistence/Degradability

Not determined.

# **Bioaccumulation**

There is no data for this product.

#### <u>Mobility</u>

Chemical name	Partition coefficient
Benzyl alcohol 100-51-6	1.05
Diethylene triamine 111-40-0	-1.3
Ethylene diamine 107-15-3	-1.221

#### **Other adverse effects**

Not determined

# 13. DISPOSAL CONSIDERATIONS

# Waste Treatment Methods

Disposal of Wastes	Disposal should be in accordance with applicable regional, national and local laws and regulations.
Contaminated Packaging	Disposal should be in accordance with applicable regional, national and local laws and regulations.

# California Hazardous Waste Status

Chemical name	California Hazardous Waste Status
Diethylene triamine 111-40-0	Тохіс
Ethylene diamine 107-15-3	Toxic

# 14. TRANSPORT INFORMATION

Note

Please see current shipping paper for most up to date shipping information, including

exemptions and special circumstances.

DOT UN/ID No Proper Shipping Name Transport hazard class(es) Packing Group	UN3267 Corrosive liquid, Basic, Organic, n.o.s. (Diethylene triamine, Ethylene diamine) 8 II
<u>IATA</u> UN number or ID number Proper Shipping Name Transport hazard class(es) Packing group	UN3267 Corrosive liquid, Basic, Organic, n.o.s. (Diethylene triamine, Ethylene diamine) 8 II
IMDG UN number or ID number Proper Shipping Name Transport hazard class(es) Packing Group Marine Pollutant	UN3267 Corrosive liquid, Basic, Organic, n.o.s. (Diethylene triamine, Ethylene diamine) 8 II This material may meet the definition of a marine pollutant

# **15. REGULATORY INFORMATION**

# International Inventories

Chemical name	TSCA	<b>TSCA</b> Inventory	DSL/NDSL	EINECS/ELI	ENCS	IECSC	KECL	PICCS	AIIC
		Status		NCS					
Alkyl Phenol polyamine	Х	ACTIVE	Х	Х	Х	Х	Х	Х	Х
Benzyl alcohol	Х	ACTIVE	Х	Х	Х	Х	Х	Х	Х
Diethylene triamine	Х	ACTIVE	Х	Х	Х	Х	Х	Х	Х
Ethylene diamine	Х	ACTIVE	Х	Х	Х	Х	Х	Х	Х

# Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

**DSL/NDSL** - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

**ENCS** - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

#### US Federal Regulations

#### **CERCLA**

Chemical name	Hazardous Substances RQs	CERCLA/SARA RQ	Reportable Quantity (RQ)
Ethylene diamine	5000 lb	5000 lb	RQ 5000 lb final RQ
107-15-3			RQ 2270 kg final RQ

# <u>SARA 313</u>

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

# CWA (Clean Water Act)

Chemical name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
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Ethylene diamine	5000 lb		Х

#### US State Regulations

#### California Proposition 65

This product does not contain any Proposition 65 chemicals.

## U.S. State Right-to-Know Regulations

Chemical name	New Jersey	Massachusetts	Pennsylvania
Benzyl alcohol 100-51-6		X	Х
Diethylene triamine 111-40-0	х	X	Х
Ethylene diamine 107-15-3	х	X	Х

16. OTHER INFORMATION				
<u>NFPA</u>	Health hazards	Flammability	Instability	Special hazards
<u>HMIS</u>	- Health hazards -	- Flammability -	- Physical hazards -	- Personal Protection Not determined

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Revision Note:	New format

#### **Disclaimer**

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

#### **End of Safety Data Sheet**