

E-Grip III

1. IDENTIFICATION OF THE PRODUCT & MANUFACTURER**1.1. Product Identifier**

Product Name: ECORE E-GRIP III

1.2. Relevant identified uses of the substance or mixture and uses advised against

Recommended use: Adhesives

Restrictions on use: No information available

1.3. Details of the supplier of the safety data sheet**Responsible Party**

Ecore International

715 Fountain Avenue

Lancaster, PA 17601 USA

Phone: 1 (800) 322-1923 (Domestic Toll Free)

Phone: 1 (717) 295-3400 (8:00 a.m. to 5:00 p.m. EST)

Fax: 1 (717) 295-34141.4.

1.4. Emergency telephone number

Emergency Telephone: 1-800-227-0332(Outside U.S.) 1-703-527-3887

2. HAZARD(S) IDENTIFICATION**2.1. Classification of the substance or mixture**

Respiratory sensitization	Category 1
Skin sensitization	Category 1
Reproductive toxicity	Category 1B

Hazards not otherwise classified (HNOC)

Not applicable

2.2. Label elements**Emergency Overview**

Danger

Hazard statements

May cause allergy or asthma symptoms or breathing difficulties if inhaled

May cause an allergic skin reaction

May damage fertility or the unborn child

Appearance: Paste

Physical State: Solid

Odor: No information available

Precautionary Statements - Prevention

Obtain special instructions before use

Do not handle until all safety precautions have been read and understood

Use personal protective equipment as required

Avoid breathing dust/fume/gas/mist/vapors/spray

In case of inadequate ventilation wear respiratory protection

Contaminated work clothing should not be allowed out of the workplace

Wear protective gloves

Statements - Response

IF exposed or concerned: Get medical advice/attention

IF ON SKIN: Wash with plenty of soap and water. If skin irritation or rash occurs: Get medical

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**2. HAZARD(S) IDENTIFICATION
(CONTINUED)**

advice/attention. Wash contaminated clothing before reuse.

IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician.

Precautionary Statements - Storage

Store locked up

Precautionary Statements - Disposal

Dispose of contents/ container to an approved waste disposal plant

Hazards not otherwise classified (HNOC)

Not applicable

Unknown acute toxicity

35 % of the mixture consists of ingredient(s) of unknown toxicity

2.3. Other Information

Small amounts of methanol (CAS 67-56-1) are formed by hydrolysis and released upon curing.

**3. COMPOSITION/INFORMATION
ON INGREDIENTS****3.1. Substances**

Not applicable.

3.2. Mixtures

Chemical Name	CAS No	Weight -%
Limestone	1317-65-3	40 - 70
Benzene, 1,1'-methylenebis[isocyanato-	1317-65-3	0.1 - 1
Quartz	14808-60-7	0.1 - 1
Dibutyltin dilaurate	77-58-7	0.1 - 1
Benzenesulfonyl isocyanate, 4-methyl-	4083-64-1	0.1 - 1

**The exact percentage (concentration) of composition has been withheld as a trade secret*

4. FIRST AID MEASURES**4.1. Description of first aid measures**

General advice: Do not breathe dust/fume/gas/mist/vapors/spray. Do not get in eyes, on skin, or on clothing. If symptoms persist, call a physician.

Inhalation: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Administer oxygen if breathing is difficult. If breathing is irregular or stopped, administer artificial respiration. Avoid direct contact with skin. Use barrier to give mouth-to-mouth resuscitation. If symptoms persist, call a physician.

Eye contact: Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Keep eye wide open while rinsing. If eye irritation persists: Get medical advice/attention.

Skin contact: Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Wash contaminated clothing before reuse. May cause

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4. FIRST AID MEASURES (CONTINUED)

sensitization by skin contact. In the case of skin irritation or allergic reactions see a physician.

Ingestion: Clean mouth with water and drink afterwards plenty of water. Never give anything by mouth to an unconscious person. If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.

Self-protection of the first aider: Use personal protective equipment as required. Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves.

4.2. Most important symptoms and effects, both acute and delayed

Symptoms: No information available.

4.3. Indication of any immediate medical attention and special treatment needed

Note to physicians: May cause sensitization of susceptible persons. May cause sensitization by inhalation and skin contact. Treat symptomatically. Small amounts of methanol (CAS 67-56-1) are formed by hydrolysis and released upon curing.

4.4. Reference to other sections

Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Section 11: TOXICOLOGY INFORMATION

5. FIRE FIGHTING MEASURES

5.1. Extinguishing media

Suitable Extinguishing Media: Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable extinguishing media: CAUTION: Use of water spray when fighting fire may be inefficient.

5.2. Special hazards arising from the substance or mixture

Specific hazards arising from the chemical: Thermal decomposition can lead to release of irritating and toxic gases and vapors. In the event of fire and/or explosion do not breathe fumes. May cause sensitization by inhalation and skin contact.

Explosion data: Carbon dioxide (CO₂).

sensitivity to mechanical impact:

None. **Sensitivity to static discharge:**

None.

5.3. Advice for firefighters

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

6. ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment, and emergency procedures

Personal precautions: Use personal protective equipment as required. Keep people away from and upwind of spill/leak. Ensure adequate ventilation, especially in confined areas. Avoid contact with skin, eyes, or clothing. Wash thoroughly after handling.

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6. ACCIDENTAL RELEASE MEASURES (CONTINUED)

Environmental precautions

Environmental precautions: Prevent further leakage or spillage if safe to do so. Prevent product from entering drains. Do not flush into surface water or sanitary sewer system. Prevent entry into waterways, sewers, basements, or confined areas. See Section 12 for additional Ecological Information.

6.2. Methods and material for containment and cleaning up

Methods for containment: Prevent further leakage or spillage if safe to do so. Contain and collect spillage with non-combustible absorbent material, (e.g., sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see Section 13).

Methods for cleaning up: Use personal protective equipment as required. Dam up. Soak up with inert absorbent material. Pick up and transfer to properly labeled containers. Clean contaminated surface thoroughly.

6.3. Reference to other sections:

Section 7: HANDLING AND STORAGE

Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Section 13: DISPOSAL CONSIDERATIONS

7. HANDLING AND STORAGE

7.1. Precautions for safe handling

Advice on safe handling: Use personal protective equipment as required. Handle in accordance with good industrial hygiene and safety practice. Do not eat, drink, or smoke when using this product. Do not breathe dust/fume/gas/mist/vapors/spray. Use with local exhaust ventilation. Avoid contact with skin, eyes, or clothing. After contact with skin, wash immediately with plenty of water and soap. Wash contaminated clothing before reuse.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions: Keep out of the reach of children. Keep in properly labeled containers. Keep containers tightly closed in a dry, cool, and well-ventilated place. Protect from direct contact with water or excessive moisture.

Incompatible materials: Water. Alcohols. Strong bases. Strong oxidizing agents. Finely powdered metals.

7.3. Specific end use(s)

Specific uses: Intermediate

Other information: No information available

7.4. References to other sections

Section 13: DISPOSAL CONSIDERATIONS

Section 10: STABILITY AND REACTIVITY

8. EXPOSURE CONTROLS/ PERSONAL PROTECTION

8.1. Control parameters

Exposure guidelines: This product contains substances which in their raw state are powder form, however in this product they are in a non-respirable form. Inhalation of powder/dust particles are unlikely to occur from exposure to this product. Small amounts of methanol (CAS 67-56-1) are formed by hydrolysis and released upon curing. See next page for chart.

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Chemical Name	ACGIH TLV	OSHA PEL	NIOSH	Mexico
Limestone 1317-65-3	-	TWA: 15 mg/m ³ total dust TWA: 5 mg/m ³ respirable fraction (vacated) TWA: 15 mg/m ³ total dust (vacated) TWA: 5 mg/m ³ respirable fraction	TWA: 10 mg/m ³ total dust TWA: 5 mg/m ³ respirable dust	TWA: 10 mg/m ³ STEL: 20 mg/m ³
Benzene, 1,1'-methylenebis[isocyanato- 26447-40-5	-	Ceiling: 0.02 ppm Ceiling: 0.2 mg/m ³	-	TWA: 0.02 ppm TWA: 0.2 mg/m ³ TWA: 0.005 ppm TWA: 0.051 mg/m ³
Quartz 14808-60-7	TWA: 0.025 mg/m ³ respirable particulate matter	TWA: 50 µg/m ³ TWA: 50 µg/m ³ excludes construction work, agricultural operations, and exposures that result from the processing of sorptive clays (vacated) TWA: 0.1 mg/m ³ respirable dust : (250)/(%SiO ₂ + 5) mppcf TWA respirable fraction : (10)/(%SiO ₂ + 2) mg/m ³ TWA respirable fraction	IDLH: 50 mg/m ³ respirable dust TWA: 0.05 mg/m ³ respirable dust	TWA: 0.1 mg/m ³
Dibutyltin dilaurate 77-58-7	STEL: 0.2 mg/m ³ Sn TWA: 0.1 mg/m ³ Sn S*	TWA: 0.1 mg/m ³ Sn (vacated) TWA: 0.1 mg/m ³ Sn (vacated) S*	IDLH: 25 mg/m ³ Sn TWA: 0.1 mg/m ³ except Cyhexatin Sn	TWA: 0.1 mg/m ³ STEL: 0.2 mg/m ³

Chemical Name	Argentina	Brazil	Chile	Venezuela
Limestone 1317-65-3	TWA: 10 mg/m ³	-	TWA: 7 mg/m ³	-
Benzene, 1,1'-methylenebis[isocyanato- 26447-40-5	TWA: 0.005 ppm	-	TWA: 0.004 ppm TWA: 0.045 mg/m ³	-
Quartz 14808-60-7	TWA: 0.05 mg/m ³	-	TWA: 0.08 mg/m ³	TWA: 0.025mg/m ³
Dibutyltin dilaurate 77-58-7	TWA: 0.1 mg/m ³ Skin STEL: 0.2 mg/m ³	-	TWA: 0.09 mg/m ³ Skin	STEL: 0.2mg/m ³ TWA: 0.1mg/m ³

Chemical Name	ACGIH TLV	NIOSH IDLH	OSHA PEL	Mexico
Methyl alcohol 67-56-1	STEL: 250 ppm TWA: 200 ppm S*	IDLH: 6000 ppm TWA: 200 ppm TWA: 260 mg/m ³ STEL: 250 ppm STEL: 325 mg/m ³	TWA: 200 ppm TWA: 260 mg/m ³	TWA: 200 ppm TWA: 260 mg/m ³ STEL: 250 ppm STEL: 310 mg/m ³

Chemical Name	Argentina	Brazil	Chile	Venezuela
Methyl alcohol 67-56-1	TWA: 200 ppm Skin STEL: 250 ppm	TWA: 156 ppm TWA: 200 mg/m ³ Skin	TWA: 175 ppm TWA: 229 mg/m ³ Skin	Skin STEL: 250 ppm TWA: 200 ppm

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8. EXPOSURE CONTROLS/
PERSONAL PROTECTION
(CONTINUED)**8.2. Exposure controls**

Small amounts of methanol (CAS 67-56-1) are formed by hydrolysis and released upon curing.

Engineering controls

Showers Eyewash stations Ventilation systems

Personal protective equipment [PPE]

Eye/face protection: Wear safety glasses with side shields (or goggles).

Skin and body protection: Wear suitable chemical resistant gloves. The selection of suitable gloves does not only depend on the material, but also on further marks of quality and various manufacturers.

Respiratory protection: If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.

General hygiene considerations: Use personal protective equipment as required. Handle in accordance with good industrial hygiene and safety practice. Do not eat, drink, or smoke when using this product. Wash face, hands, and any exposed skin thoroughly after handling. Wash contaminated clothing before reuse. Regular cleaning of equipment, work area and clothing is recommended.

9. PHYSICAL AND CHEMICAL
PROPERTIES**9.1. Information on basic physical and chemical properties**

Physical state	Liquid
Appearance	Paste
Color	Gray
Odor	No information available
Odor threshold	No information available

Property	Values	Remarks/Method
pH	No data available	
Melting point/ freezing point	No data available	
Boiling point	No data available	
Flash point	260 °C / 500 °F	
Evaporation rate	No data available	
Flammability (solid, gas)	No data available	
Flammability Limit in Air Upper flammability or explosive limits Lower flammability or explosive limits	No data available No data available	
Vapor pressure	No data available	None known
Relative vapor density	No data available	None known
Relative density	No data available	None known
Water solubility	No data available	None known

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Property	Values	Remarks/Method
Solubility(ies)	No data available	
Partition coefficient	No data available	
Autoignition temperature	No data available	
Decomposition temperature	No data available	
Kinematic viscosity	No data available	
Dynamic viscosity	1800 - 3200 Pa.s	

9.2. Other information

Property	Values
Explosive properties	No information available
Oxidizing properties	No information available
Solvent content (%)	No information available
Solid content (%)	No information available
Softening Point	No information available
Molecular weight	No information available
VOC Content (%)	< 0.1 g/L
Density	1.648 g/cm ³
Bulk density	No information available

10. STABILITY AND REACTIVITY**10.1. Reactivity**

Reactivity None under normal use conditions.

10.2. Chemical stability

Chemical stability Stable under recommended storage conditions.

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions None under normal processing.

Hazardous polymerization Hazardous polymerization may occur.

10.4. Conditions to avoid

Conditions to avoid Extremes of temperature and direct sunlight. Keep from any possible contact with water. Reacts with water.

10.5. Incompatible materials

Incompatible materials Water. Alcohols. Strong bases. Strong oxidizing agents. Finely powdered metals.

10.6. Hazardous decomposition products

Hazardous decomposition products None known based on information supplied

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11. TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects**Product Information****Inhalation:** May cause sensitization by inhalation.**Eye contact:** No data available.**Skin contact:** May cause sensitization by skin contact.**Ingestion:** No data available.**Component information:**

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Limestone 1317-65-3	>5000 mg/kg (Rattus)	-	-
Benzene, 1,1'-methylenebis[isocyanato- 26447-40-5	>10000 mg/kg (Rattus)	> 10000 mg/kg (Rabbit)	= 490 mg/m ³ (Rat) 4 h
Quartz 14808-60-7	= 6450 mg/kg (Rat)	-	-
Dibutyltin dilaurate 77-58-7	= 2071 mg/kg (Rat)	> 2000 mg/kg (Rat)	-
Benzenesulfonyl isocyanate, 4-methyl- 4083-64-1	= 2234 mg/kg (Rat)	-	> 640 ppm (Rat) 1 h

Delayed and immediate effects as well as chronic effects from short and long-term exposure**Symptoms:** No information available.**Skin corrosion/irritation:** No information available.**Serious eye damage/eye irritation:** No information available.**Irritation:** No information available.**Corrosivity:** No information available.**Sensitization:** May cause sensitization by inhalation and skin contact.**Germ cell mutagenicity:** No information available.**Reproductive toxicity:** Product is or contains a chemical which is a known or suspected reproductive hazard.**Developmental Toxicity:** No information available.**Teratogenicity:** No information available.**STOT - single exposure:** No information available.**STOT - repeated exposure:** No information available.**Chronic Toxicity:** Repeated contact may cause allergic reactions in very susceptible persons. Avoid repeated exposure. Repeated or prolonged contact causes sensitization, asthma, and eczemas. Contains a known or suspected reproductive toxin.**Target Organ Effects:** Eyes, Skin, Respiratory system, Reproductive System, retina.**Aspiration hazard:** No information available.**Carcinogenicity:** The table below indicates whether each agency has listed any ingredient as a carcinogen. As Quartz (14808-60-7) is inextricably bound in the polymer matrix, it is not expected to be available as an airborne hazard (dust, mist, or spray) under normal condition of uses.

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Chemical Name	ACGIH	IARC	NTP	OSHA
Benzene, 1,1'-methylenebis[isocya nato- 26447-40-5	-	Group 3	-	-
Quartz 14808-60-7	A2	Group 1	Known	X

ACGIH (American Conference of Governmental Industrial Hygienists)

A2 - Suspected Human Carcinogen

IARC (International Agency for Research on Cancer)

Group 1 - Carcinogenic to Humans

Group 3 - Not Classifiable as to Carcinogenicity in Humans

NTP (National Toxicology Program)

Known - Known Carcinogen

OSHA (Occupational Safety and Health Administration of the US Department of Labor)

X - Present

12. ECOLOGICAL INFORMATION

12.1. Toxicity

Chemical Name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
Limestone 1317-65-3	CE50 (72h) >200mg/L Algae (Desmodesmus subspicatus)	CL50 (96h)>10000mg/L (Oncorhynchus mykiss)	-	CE50 (48h) >1000 mg/L Daphnia Magna
Benzene, 1,1'-methylenebis[isocya nato- 26447-40-5	EC50: =3230mg/L (96h, Skeletonema costatum)	-	-	EC50: >1000mg/L (24h, Daphnia magna)
Dibutyltin dilaurate 77-58-7	-	LC50: =2mg/L (48h, Oryzias latipes)	-	-

12.2. Persistence and degradability

No information available.

12.3. Bioaccumulative potential

No information available.

12.4. Mobility in soil

No information available.

Other adverse effects

No information available

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13. DISPOSAL CONSIDERATIONS**13.1. Waste treatment methods**

Disposal of Wastes: It is the responsibility of the waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste identification and disposal methods in compliance with applicable regulations

Contaminated packaging: Dispose of in accordance with federal, state, and local regulations

14. TRANSPORT INFORMATION

DOT Not regulated

IATA Not regulated

IMDG Not regulated

15. REGULATORY INFORMATION**Global Inventories**

TSCA Listed

DSL Listed

Legend:

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

DSL - Canadian Domestic Substances List

Listed - The components of this product are either listed or exempt from listing on inventory.

Not Listed - One or more components of this product are not listed on inventory.

United States of America**SARA 313**

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.

SARA 311/312 Hazard Categories

Acute Health Hazard Yes

Chronic Health Hazard Yes

Fire hazard No

Sudden release of pressure hazards

NoReactive Hazard No

Europe**Restrictions of Use of Hazardous Substances (RoHS) Directive 2011/65/EU**

This product does not contain Lead (7439-92-1), Cadmium (7440-43-9), Mercury (7439-97-6), Hexavalent chromium (7440-47-3), Polybrominated biphenyls (PBB), and Polybrominated diphenyl ethers (PBDE) above the regulated limit mentioned in this regulation

SVHC: Substances of Very High Concern for Authorization:

This product does not contain candidate substances of very high concern at a concentration $\geq 0.1\%$ (Regulation (EC) No.1907/2006 (REACH), Article 59)

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16. OTHER INFORMATION

Key or legend to abbreviations and acronyms used in the safety data sheet

No information available

Key Literature References and Sources for Data

No information available

Prepared By

Product Safety & Regulatory Affairs

Revision Date

03-May-2019

Revision notes

SDS sections updated, 1

Training Advice

No information available

Further information

No information available

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 ****