

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

Product Name: ECORE E-GRIP 95

Other means of identification: Other information Not applicable

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

Recommended use: Adhesive

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) 295-3414

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: Liquid

Odor: No information available

Precautionary Statements - Prevention

Obtain special instructions before use

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

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

In case of inadequate ventilation wear respiratory protection,

Contaminated work clothing must not be allowed out of the workplace

Wear protective gloves/protective clothing/eye protection/face protection

Precautionary 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 advice/attention

E-Grip 95

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

Wash contaminated clothing before reuse
 IF INHALED: If breathing is difficult, remove person to fresh air and keep 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

18 % of the mixture consists of ingredient(s) of unknown toxicity

2.3. Other Information

No information available.

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

Not applicable.

Mixture

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: IF exposed or concerned: Get medical advice/attention. Show this safety data sheet to the doctor in attendance.

Inhalation: Remove to fresh air. May cause allergic respiratory reaction. If symptoms persist, call a physician. If breathing is difficult, (trained personnel should) give oxygen. Avoid direct contact with skin. Use barrier to give mouth-to-mouth resuscitation. If breathing has stopped, give artificial respiration. Get medical attention immediately.

Eye contact: Rinse thoroughly with plenty of water, also under the eyelids. Remove contact lenses, if present and easy to do. Continue 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 an allergic skin reaction. 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. Do NOT induce vomiting. May produce an allergic reaction. Get immediate medical advice/attention.

E-Grip 95

4. FIRST AID MEASURES (CONTINUED)

Self-protection of the first aider: Use personal protective equipment as required. Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination. Avoid contact with skin, eyes, or clothing. Avoid direct contact with skin. Use barrier to give mouth-to-mouth resuscitation.

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

Symptoms: May cause allergy or asthma symptoms or breathing difficulties if inhaled. Coughing and/ or wheezing. Itching. Rashes. Hives.

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

Note to physicians: May cause sensitization in susceptible persons. May cause sensitization by inhalation and skin contact. Treat symptomatically

5. FIRE FIGHTING MEASURES

5.1. Extinguishing media

Suitable Extinguishing Media: Carbon dioxide (CO₂). Dry chemical. Foam. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Large Fire: CAUTION: Use of water spray when fighting fire may be inefficient.

Unsuitable extinguishing media: Do not scatter spilled material with high pressure water streams.

5.2. Special hazards arising from the substance or mixture

Specific hazards arising from the chemical: Product is or contains a sensitizer. May cause sensitization by inhalation and skin contact.

Hazardous combustion products: Carbon dioxide (CO₂).

Explosion data 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. Avoid breathing vapors or mists. Avoid contact with skin, eyes, or clothing. Wash thoroughly after handling.

Other information: Refer to protective measures listed in Sections 7 and 8.

6.2. Environmental precautions

Environmental precautions: Prevent entry into waterways, sewers, basements, or confined areas. See Section 12 for additional Ecological Information.

E-Grip 95

6. ACCIDENTAL RELEASE MEASURES (CONTINUED)

6.3. Methods and material for containment and cleaning up

Methods for containment: Stop leak if you can do it without risk. 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). Do NOT close container (evolution of carbon dioxide - CO₂). Keep wet and put outdoors in a secured place for a few days. Then dispose to of according to local / national regulations (see Section 13).

Methods for cleaning up: Use personal protective equipment as required. Dam up. Take up with inert, damp, non-combustible material using clean non-sparking tools and place into loosely covered plastic containers for later disposal. Clean contaminated surface thoroughly.

Reference to other sections: See section 8 for more information. See section 13 for more information.

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. Ensure adequate ventilation. Provide extract ventilation to points where emissions occur. In case of insufficient ventilation, wear suitable respiratory equipment. Do not breathe vapor or mist. Avoid contact with skin, eyes, or clothing. Wash thoroughly after handling. Take off contaminated clothing and wash before reuse.

7.2. Conditions for safe storage, including any incompatibilities

Storage Conditions: Keep in properly labeled containers. Keep containers tightly closed in a dry, cool, and well-ventilated place. Keep out of the reach of children. Protect from moisture.

7.3 References to other sections

Reference to other sections
Section 10: STABILITY AND REACTIVITY
Section 13: DISPOSAL CONSIDERATIONS

8. EXPOSURE CONTROLS/ PERSONAL PROTECTION

8.1. Control parameters

Exposure Limits: 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 is unlikely to occur from exposure to this product.

See next page for chart.

E-Grip 95

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH
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
Benzene, 1,1'-methylenebis[isocyanato- 26447-40-5	-	Ceiling: 0.02 ppm Ceiling: 0.2 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
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

Chemical Name	Argentina	Brazil	Chile	Colombia
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: 0.025 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: 0.1 mg/m ³	TWA: 0.09 mg/m ³ Skin	STEL: 0.2mg/m ³ TWA: 0.1mg/m ³

Chemical Name	Costa Rica	Peru	Uruguay	Venezuela
Quartz 14808-60-7	TWA: 0.025mg/m ³	TWA: 0.05mg/m ³	0.025 mg/m ³ TWA (respirable particulate matter)	TWA: 0.025 mg/m ³
Dibutyltin dilaurate 77-58-7	TWA: 0.1mg/m ³ STEL: 0.2mg/m ³	STEL: 0.2mg/m ³ TWA: 0.1mg/m ³	0.2 mg/m ³ STEL (as Sn) 0.1 mg/m ³ TWA (as Sn)	Skin STEL: 0.2 mg/m ³ TWA: 0.1 mg/m ³

E-Grip 95

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

Appropriate engineering controls

Engineering controls

Showers Eyewash stations Ventilation systems

Individual protection measures, such as personal protective equipment**Eye/face protection:** Tight sealing safety goggles.**Hand 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.**Skin and body protection:** Wear suitable protective clothing.**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:** Wear suitable gloves and eye/face protection. Handle in accordance with good industrial hygiene and safety practice. Do not eat, drink, or smoke when using this product. Keep away from food, drink, and animal feeding stuffs. Do not breathe vapor or mist. Avoid contact with skin, eyes, or clothing. Wash hands before breaks and immediately after handling the product. Remove and wash contaminated clothing and gloves, including the inside, before re-use. 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	No information available
Odor	No information available
Odor threshold	No information available

Property	Values	Remarks/Method
pH	No data available	None known
Melting point/ freezing point	No data available	None known
Boiling point	No data available	None known
Flash point	>93.3°C / 200°F	
Evaporation rate	No data available	None known
Flammability (solid, gas)	Not applicable for liquids	
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

E-Grip 95

Property	Values	Remarks/Method
Solubility(ies)	No data available	None known
Partition coefficient	No data available	None known
Autoignition temperature	No data available	None known
Decomposition temperature	No data available	None known
Kinematic viscosity	No data available	None known
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	1.74 g/cm ³
Bulk density	No information available

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

Reactivity No information available.

10.2. Chemical stability

Chemical stability Stable under normal 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. Protect from moisture.

10.5. Incompatible materials

Incompatible materials Water. Alcohols. Strong oxidizing agents. Strong bases.

10.6. Hazardous decomposition products

Hazardous decomposition products None known based on information supplied

E-Grip 95

11. TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects**Product Information**

Inhalation: May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause sensitization in susceptible persons.

Eye contact: Based on available data, the classification criteria are not met.

Skin contact: Repeated or prolonged skin contact may cause allergic reactions with susceptible persons. May cause sensitization by skin contact.

Ingestion: May cause additional effects as listed under "Inhalation".

Symptoms related to the physical, chemical, and toxicological characteristics

Symptoms: Symptoms of allergic reaction may include rash, itching, swelling, trouble breathing, tingling of the hands and feet, dizziness, lightheadedness, chest pain, muscle pain, or flushing. Coughing and/ or wheezing. Itching. Rashes. Hives.

Acute toxicity**Numerical measures of toxicity**

The following values are calculated based on chapter 3.1 of the GHS document .

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 (Oryctolagus cuniculus)	=490 mg/m3 (Rattus) 4 h
Quartz 14808-60-7	>20000 mg/kg	-	-
Dibutyltin dilaurate 77-58-7	=2071 mg/kg (Rattus) OECD 401	> 2000 mg/kg (Rattus)	-
Benzenesulfonyl isocyanate, 4-methyl- 4083-64-1	=2234 mg/kg (Rattus)	LD 50 (Rattus) > 2000 mg/kg OECD 402	>640 ppm (Rattus) 1 h

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Skin corrosion/irritation: Based on available data, the classification criteria are not met.

Serious eye damage/eye irritation: Based on available data, the classification criteria are not met.

Respiratory or skin sensitization: May cause sensitization by inhalation. May cause sensitization by skin contact.

Germ cell mutagenicity: Based on available data, the classification criteria are not met.

Carcinogenicity: Contains a known or suspected 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.

E-Grip 95

The table below indicates whether each agency has listed any ingredient as a carcinogen.

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

Legend

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*

Benzene, 1,1'-methylenebis[isocyanato-(26447-40-5)

Method	Species	Results
	in vivo	Limited evidence of a carcinogenic effect

Quartz (14808-60-7)

Method	Species	Results
IARC (International Agency for Research on Cancer)	Human evidence	Carcinogenic

Reproductive toxicity: Contains a known or suspected reproductive toxin. Classification based on data available for ingredients. May cause harm to breast-fed children.

STOT - single exposure: Based on available data, the classification criteria are not met.

STOT - repeated exposure: Based on available data, the classification criteria are not met.

Target organ effects: Eyes, Respiratory system, Skin.

Aspiration hazard: Based on available data, the classification criteria are not met.

Other adverse effects: No information available.

Interactive effects: No information available.

E-Grip 95

12. ECOLOGICAL INFORMATION

12.1. Toxicity

Ecotoxicity: Harmful to aquatic life with long lasting effects.

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	EC50 1 (72h) mg/L (desmodesmus subspicatus)	LC50: =2mg/L (48h, Oryzias latipes)	-	0,463 (48h) mg/L (daphnia magma)

12.2. Persistence and degradability

Persistence and degradability: No information available.

12.3. Bioaccumulative potential

Bioaccumulation: There is no data for this product.

Component Information

Chemical Name	Partition coefficient
Limestone 1317-65-3	0.9
Benzene, 1,1'-methylenebis[isocyanato- 26447-40-5	4.5
Dibutyltin dilaurate 77-58-7	4.44
Benzenesulfonyl isocyanate, 4-methyl- 4083-64-1	0.6

12.4. Mobility in soil

Mobility: No information available.

Other adverse effects

Other adverse effects: No information available.

13. DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Waste from residues/unused products: 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

E-Grip 95

14. TRANSPORT INFORMATION

DOT Not regulated
IATA Not regulated
IMDG Not regulated

15. REGULATORY INFORMATION**International 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.

US Federal Regulations**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.

Chemical Name	CAS No	CAS No
Benzene, 1,1'-methylenebis[isocyanato-	26447-40-5	1.0

SARA 311/312 Hazard Categories

Should this product meet EPCRA 311/312 Tier reporting criteria at 40 CFR 370, refer to Section 2 of this SDS for appropriate classifications.

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

This product does not contain Lead, Cadmium, Mercury, Hexavalent chromium, Polybrominated biphenyls (PBB), Polybrominated diphenyl ethers (PBDE), Bis(2-Ethylhexyl) phthalate (DEHP), Benzyl butyl phthalate (BBP), Dibutyl phthalate (DBP) and Diisobutyl phthalate (DIBP) 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)

16. OTHER INFORMATION**Key or legend to abbreviations and acronyms used in the safety data sheet****Legend Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

TWA TWA (time-weighted average) STEL STEL (Short Term Exposure Limit)
 Ceiling Maximum limit value *

Prepared by Product Safety & Regulatory Affairs.
 Revision note No information available.

Revision date 5-Feb-2021

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 ****