

Renovo Laboratories LLC

SAFETY DATA SHEET

Revision Date: 6/15/2014

Print Date: 12/8/2014

MSDS Number: 10000102

Version: 1.0

E3 Extreme Exterior Enhancer

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

Renovo Laboratories LLC
4646 South Ash Ave. #105
Tempe, AZ 85282

Regulatory Information Number
Telephone 4803347225

Product name E3 Extreme Exterior Enhancer
Product code 102
Product Use Description Fluoropolymer Surface Enhancer

2. HAZARDS IDENTIFICATION**Emergency Overview**

Appearance: liquid, clear

FLAMMABLE – DO NOT USE NEAR OPEN FLAME

Potential Health Effects**Exposure routes**

Skin contact, Eye Contact, Ingestion

Eye contact

May cause mild eye irritation. Symptoms include stinging, tearing, and redness

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Skin contact

May cause mild skin irritation. Symptoms may include redness and burning of skin. Prolonged or repeated contact may dry the skin. Symptoms may include redness, burning, and drying and cracking of skin, skin burns, and other skin damage

Ingestion

Swallowing this material may be harmful or fatal.

Inhalation

Breathing of vapor or mist is possible.

Aggravated Medical Condition

Preexisting disorders of the following organs (or organ systems) may be aggravated by exposure to this material: Skin, Eyes,

Symptoms

Signs and symptoms of exposure to this material through breathing, swallowing, and/or passage of the material through the skin may include:, stomach or intestinal upset (nausea, vomiting, diarrhea), irritation (nose, throat, airways), cough, nausea, headache, Skin contact may provoke the following symptoms:, redness of the skin, Swelling of tissue, Burn, Blistering, Additional symptoms of eye exposure may include:, Redness, blurred vision.

Target Organs

No Data available

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Carcinogenicity

Based on the available information, this material cannot be classified with regard to carcinogenicity.

Reproductive hazard

Based on the available information, risk to the fetus from maternal exposure to this material cannot be assessed.

Environmental Effects

None Known.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous Components	CAS-No. / trade secret no.	Concentration
Odorless mineral Spirits	658551-17-7	Less than 91%
Fluoropolymer	Mixture	Less than 9%

4. FIRST AID MEASURES**General Information**

Consult a physician. Show this safety data sheet to the doctor in attendance.

Eyes

If symptoms develop, move individual away from exposure and into fresh air. Flush eyes gently with water while holding eyelids apart. If symptoms persist or there is any visual difficulty, seek medical attention.

Skin

Remove contaminated clothing. Wash exposed area with soap and water. If symptoms persist, seek medical attention. Launder clothing before reuse.

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Ingestion

Do Not Induce Vomiting. Contact a physician, medical facility, or poison control center immediately. If possible, do not leave individual unattended.

Inhalation

If symptoms develop, move individual away from exposure and into fresh air

Notes to physician

Hazards: This material (or a component) is an acidic solution. Do not induce vomiting. Do not give vinegar or acidic drink.

Treatment: No information available.

5. FIREFIGHTING MEASURES

Suitable extinguishing media

Foam or water

Hazardous combustion products

Odorless Mineral Spirits

Precautions for fire-fighting

Use dry chemical, carbon dioxide, alcohol foam, or water spray as extinguishing agents. Use water spray to cool fire-exposed surfaces and to protect personnel. When using water spray, boil-over may occur when the product temperature reaches the boiling point of water.

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Health:1 Fire:2 Reactivity:1

6. ACCIDENTAL RELEASE MEASURES**Personal precautions**

For personal protection see section 8. Persons not wearing protective equipment should be excluded from area of spill until clean-up has been completed. Ensure adequate ventilation. Eliminate all ignition sources (flares, flames including pilot lights, electrical sparks). Pay attention to the spreading of gases especially at ground level (heavier than air) and to the direction of the wind.

Environmental precautions

Remove all sources of ignition. Prevent from entering sewers or water courses. Ventilate enclosed spaces or wear respiratory protection. Prevent spreading over a wide area (e.g. by containment or oil barriers). Do not let product enter drains. Do not flush into surface water or sanitary sewer system. Local authorities should be advised if significant spillages cannot be contained.

Methods for cleaning up

Contain spillage, and then collect 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).

Other information

Comply with all applicable federal, state, and local regulations.

7. HANDLING AND STORAGE**Handling**

Keep containers tightly closed when not in use. Do not mix with other cleaning agents. Wash thoroughly after handling. Do not get in eyes, skin or clothing.

Storage

Store in a cool, dry, ventilated area, away from incompatible substances.

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8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines

Odorless Mineral Spirits

General advice

These recommendations provide general guidance for handling this product. Personal protective equipment should be selected for individual applications and should consider factors which affect exposure potential, such as handling practices, chemical concentrations and ventilation. It is ultimately the responsibility of the employer to follow regulatory guidelines established by local authorities.

Exposure controls

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Provide sufficient mechanical (general and/or local exhaust) ventilation to maintain exposure below exposure guidelines (if applicable) or below levels that cause known, suspected or apparent adverse effects.

Eye protection

Wear chemical splash goggles when there is the potential for exposure of the eyes to liquid, vapor or mist.

Skin and body protection

Wear normal work clothing including long pants, long-sleeved shirts and foot covering to prevent direct contact of the product with the skin. Launder clothing before reuse. If skin irritation develops, contact your facility health and safety professional or your local safety equipment supplier to determine the proper personal protective equipment for your use.
Wear resistant gloves (consult your safety equipment supplier).
Discard gloves that show tears, pinholes, or signs of wear.

Respiratory protection

A NIOSH-approved air-purifying respirator with an appropriate cartridge and/or filter may be permissible under certain circumstances where airborne concentrations are expected to exceed exposure limits (if applicable) or if overexposure has otherwise been determined. Protection provided by air-purifying respirators is limited. Use a positive pressure, air-supplied respirator if there is any potential for uncontrolled release, exposure levels are not known or any other circumstances where an air-purifying respirator may not provide adequate protection.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state	liquid
Form	liquid
Colour	clear
Odour	Slight soap
Boiling point/boiling range	175 °C /
pH	None
Flash point	51 °C / TCC

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Lower explosion limit/Upper explosion limit	none
Vapour pressure	.07
Relative vapor density	5.3
Specific Density or Gravity	0.758 @ 15.6/15.6°C (60/60°F)
Water solubility	.05 g/l
Auto-ignition temperature	347.8°C

10. STABILITY AND REACTIVITY**Stability**

Stable.

Conditions to avoid

Avoid contact with:, Acids

Incompatible products

Avoid contact with:, Strong oxidizing agents

Hazardous decomposition products

May form:, noxious vapor when combined with acid

Hazardous reactions

Product will not undergo hazardous polymerization.

11. TOXICOLOGICAL INFORMATION**Acute oral toxicity**

Acute oral toxicity - : no data available
Product

Acute oral toxicity - Components

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Product**Acute dermal toxicity**Acute dermal toxicity - : no data available
Product**Acute dermal toxicity - Components**Caustic Soda : LD50: > 2,000 mg/kg Symptoms: Local irritation
No data available**Acute toxicity (other routes of administration)**Acute toxicity (other : no data available
routes of administration)**12. ECOLOGICAL INFORMATION****Biodegradability**

Biodegradability - Product : no data available

Bioaccumulation

Bioaccumulation - Product : no data available

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Ecotoxicity effects**Toxicity to fish**

Toxicity to fish - Product	: yes, when in concentrate form
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Toxicity to fish - Components

Sodium Hydroxide	: LC50: > 1,000 mg/l Species: Fish
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Toxicity to daphnia and other aquatic invertebrates

Toxicity to daphnia and other aquatic invertebrates - Product	: no data available
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Toxicity to daphnia and other aquatic invertebrates - Components

Species: Aquatic invertebrates

Toxicity to algae

Toxicity to algae - Product	: no data available
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Toxicity to algae - Components

: no data available

Toxicity to bacteria

Toxicity to bacteria - Product	: no data available
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Dispose of in accordance with all applicable local, state and federal regulations. For assistance with your waste management needs - including disposal, recycling and waste stream reduction.

14. TRANSPORT INFORMATION**REGULATION**

ID NUMBER	PROPER SHIPPING NAME	*HAZARD CLASS	SUBSIDIARY HAZARDS	PACKING GROUP	MARINE POLLUTANT / LTD. QTY.
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U.S. DOT - ROAD

N.O.S.

UN	UN1268	Petroleum Distillates,	II		
N.O.S.					

U.S. DOT - RAIL

UN	UN1268	Petroleum Distillates,	CBL	II	
N.O.S.					

U.S. DOT - INLAND WATERWAYS

UN	UN1268	Petroleum Distillates,	CBL	II	
N.O.S.					

TRANSPORT CANADA - ROAD

UN	UN1268	Petroleum Distillates,	8	II	
N.O.S.					

TRANSPORT CANADA - RAIL

UN	UN1268	Petroleum Distillates,	8	II	
N.O.S.					

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102**TRANSPORT CANADA - INLAND WATERWAYS**

UN	UN1268	Petroleum Distillates, N.O.S.	8	II
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INTERNATIONAL MARITIME DANGEROUS GOODS

UN	UN1268	Petroleum Distillates, N.O.S.	8	II
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INTERNATIONAL AIR TRANSPORT ASSOCIATION - CARGO

UN	UN1268	Petroleum Distillates, N.O.S.	8	II
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INTERNATIONAL AIR TRANSPORT ASSOCIATION - PASSENGER

UN	UN1268	Petroleum Distillates, N.O.S.	8	II
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MEXICAN REGULATION FOR THE LAND TRANSPORT OF HAZARDOUS MATERIALS AND WASTES

UN	UN1268	Petroleum Distillates, N.E.P.	8	II
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***ORM = ORM-D, CBL = COMBUSTIBLE LIQUID**

Dangerous goods descriptions (if indicated above) may not reflect quantity, end-use or region-specific exceptions that can be applied. Consult shipping documents for descriptions that are specific to the shipment.

15. REGULATORY INFORMATION**California Prop. 65**

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.	
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SARA Hazard Classification
SARA 311/312 Classification

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Acute Health Hazard**SARA 313 Component(s)**

SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

New Jersey RTK Label Information

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Pennsylvania RTK Label Information

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Notification status

United States TSCA Inventory	y (positive listing)
Canadian Domestic Substances List (DSL)	y (positive listing)
Australia Inventory of Chemical Substances (AICS)	y (positive listing)
Japan. ENCS - Existing and New Chemical Substances Inventory	y (positive listing)
Japan. ISHL - Inventory of Chemical Substances (METI)	y (positive listing)
Korea. Korean Existing Chemicals Inventory (KECI)	y (positive listing)
Philippines Inventory of Chemicals and Chemical Substances (PICCS)	y (positive listing)
China. Inventory of Existing Chemical Substances in China (IECSC)	y (positive listing)

	HMIS	NFPA
Health	1	1
Flammability	0	0
Physical hazards	1	
Instability		0
Specific Hazard	--	--

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16. OTHER INFORMATION

The information accumulated is based on the data of which we are aware and is believed to be correct as of the date hereof. Since this information may be applied under conditions beyond our control and with which we may be unfamiliar and since data made become available subsequently to the date hereof, we do not assume any responsibility for the results of its use. Recipients are advised to confirm in advance of need that the information is current, applicable, and suitable to their circumstances. This MSDS has been prepared by Renovo Laboratories.