

# Dyechem Supplies

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Safety Data Sheet ECO STONE

Prepared pursuant to the provisions of Article 41 of the Industry Safety and Health law.

1 Substance/Product Identification

Dyechem Supplies 14733 ½ Garfield Ave. Paramount, CA 90723

Product Trade Name ECO STONE
CAS Number Confidential.
Synonyms None.
Generic Chemical Name Confidential.

**Korean Hazard Class** Material is not a regulated substance.

Product Type Extrusion
Appearance Natural pellets.
Created Date 01 January 2017

**Created Date** 01 January 2017 **Preparation/Revision Date** 01 January 2009

Issuing DepartmentProduct Safety and Compliance Department (440-943-1200)Transportation EmergencyFOR TRANSPORT EMERGENCY call: (562)833-5299

**MSDS No.** 87128501-5121814-4022920-102103

2 Composition/Information on Ingredients

**Hazardous Ingredients** This material has no known hazards under applicable laws.

Hazardous ingredient information not provided is considered a trade secret.

3 Hazards Identification

### **Principal Hazards**

This material has no known health hazards.

See Section 11 for complete health hazard information.

4	First Aid Measures
Oral	Treat symptomatically. Get medical attention.
Eyes	Treat as any foreign particulate matter. If hot melted material should splash into the eyes, flush eyes immediately with water for 15 minutes while holding the eyelids open. See a physician for treatment.
Skin	Wash with soap and water. Get medical attention if irritation develops. For contact with molten product, do not remove contaminated clothing. Flush skin immediately with large amounts of cold water. If possible submerge area in cold water. Pack with ice. DO NOT

attempt to peel polymer from skin. Seek medical attention immediately.

**Inhalation** Remove exposed person to fresh air if adverse effects are observed.

**Additional Information** Note to physician: Treat symptomatically.

5 Fire Fighting Measures

Flash Point Not applicable.

Extinguishing Media Firefighting Procedures

Unusual Fire & Explosion Hazards

Water spray, dry chemical, foam. CO2 may be ineffective on large fires.

Recommend wearing self-contained breathing apparatus. Water may cause splattering.

Solid does not readily release flammable vapors. Thermoplastic polymers can burn. Protect product from flames; maintain proper clearance when using heat devices, etc. Irritating or toxic substances will be emitted upon burning, combustion or decomposition. Large masses

of molten polymer held at elevated temperatures for extended periods of time may auto-

ignite.

6 Accidental Release Measures

**Spill Procedures** Pick up free solid for recycle and/or disposal.

7 Handling and Storage

Pumping Temperature Maximum Handling Not applicable.

**Temperature Handling Procedures** 

Not determined.

Loading and unloading operations may cause nuisance dust to form. Refer to Processing Guide and/or contact your local Technical Service representative for melt processing temperature range. For most thermoplastic polyurethanes, melt processing is in the range of 177 - 232 deg. C (350 - 450 deg. F), however, some products may process at different temperatures. Heating above 232 deg. C (450 deg. F) can generate hazardous decompositon products (see Section 10). Conduct any operations emitting fumes or vapors (including heat joining, cutting and or sealing of articles and clean up) under well-ventilated conditions. Avoid breathing process vapors. Do not hold product for extended periods of time at elevated temperatures or allow thick masses of hot polymer to accumulate because they can decompose emitting hazardous gasses. Do not taste, swallow, or chew products. Wash thoroughly after processing. Do not store or consume food in processing areas. Fume condensates may include hazardous contaminants from additives. Condensate may be combustible and should be periodically removed from exhaust hoods, ductwork, and other surfaces. Impervious gloves should be worn during cleanup operations to prevent skin contact. Post thermal processing activities necessary to produce molded articles (such as cutting, sanding, sawing, grinding, drilling, or regrinding) may create dust or "fines." Powders, dust, and/or fines may pose a dust explosion hazard. Do not steam sterilize articles made with Estane TPU resins. Methylene dianinline can be formed under these conditions. Electrostatic buildup may occur when pouring or transferring this product from its container. The spark produced may be sufficient to ignite vapors of flammable liquids. Always transfer product by means which avoid static buildup. Avoid pouring product directly from its container into combustible or flammable solvent. The major off-gasses from normal melt processing are expected to be water vapor and carbon dioxide. Other trace volatile organic

Maximum Storage

Temperature Storage Procedures Not determined.

Use good housekeeping measures to prevent dust accumulations. Store in well ventilated

components may also be emitted. Wash thoroughly after handling.

place.

**Loading Temperature** Not determined.

8

**Exposure Limits** 

Korea

Not applicable.

None established

**Other Exposure Limits** 

None known.

**Engineering Controls** 

Use with adequate ventilation.

**Gloves Procedures** 

Use good industrial hygiene practices to avoid skin contact. If contact with the material may

occur wear chemically protective gloves.

**Eve Protection** 

Safety Glasses.

**Respiratory Protection** 

Under normal use conditions, respirator is not usually required. Use appropriate respiratory protection if the recommended exposure limit is exceeded, or if exposure to vapors is likely. Cutting operations may create small particles from this product. If inhalation of particles cannot be avoided, wear a dust respirator. Consult with an industrial hygienist to determine the appropriate respiratory protection for your specific use of this material. A respiratory protection program compliant with all applicable regulations must be followed whenever

workplace conditions require the use of a respirator.

**Clothing Recommendation** 

Long sleeve shirt is recommended.

**Explosion Data** 

Material does not have explosive properties.

# Physical and Chemical Properties

**Flash Point** Not applicable. **Upper Flammable Limit** Not determined. **Lower Flammable Limit** Not determined. **Autoignition Point** Not determined. **Vapor Pressure** Not determined. pН Not determined. **Specific Gravity** 1.05 (20 °C) **Bulk Density** Not determined. Water Solubility Insoluble. Percent Solid Not determined. **Percent Volatile** Not determined. Volatile Organic Compound Not determined. Vapor Density Not determined. **Evaporation Rate** Not determined.

**Odor** Faint

Viscosity
Not determined.

Odor Threshold
Not determined.

Boiling Point
Not determined.

Pour Point Temperature
Melting / Freezing Point
Korean Oxidizer
Not applicable.

The above data are typical values and do not constitute a specification. Vapor pressure data are calculated unless otherwise noted.

10 Stability and Reactivity

**Stability** Material is normally stable at moderately elevated temperatures and pressures.

**Decomposition Temperature** Not determined.

**Incompatibility** None known, avoid contact with reactive chemicals.

**Polymerization** Will not occur.

**Thermal Decomposition** Smoke, carbon monoxide, carbon dioxide, aldehydes and other products of incomplete

combustion. Under combustion conditions, oxides of the following elements will be formed:

nitrogen. May also include isocyanates and small amounts of hydrogen cyanide.

11 Toxicological Information

Oral Toxicity The LD50 in rats is > 5000 mg/Kg. Based on data from components or similar materials.

Ingestion of this material may cause gastrointestinal irritation.

-- ACUTE EXPOSURE --

**Eye Irritation** Not expected to cause eye irritation Based on data from components or similar materials.

Particulates may cause mechanical irritation. At processing or combustion temperatures this product may emit fumes and vapors that cause irritation, possibly severe, to the eyes.

**Skin Irritation** Not expected to be a primary skin irritant. Based on data from components or similar

materials. Contact with heated polymer may cause thermal burns and adhesion of solidified

product to the skin.

**Dermal Toxicity** The LD50 in rabbits is > 2000 mg/Kg. Based on data from components or similar materials.

**Inhalation Toxicity** Overexposure to vapors or mist may cause dizziness, headache, nausea, and/or flu-like

symptoms. Avoid inhalation of mists or vapors.

**Respiratory Irritation** At processing or combustion temperatures this product may emit fumes and vapors that cause

irritation, possibly severe, to the respiratory tract, eyes, or skin.

**Dermal Sensitization** No data available to indicate product or components may be a skin sensitizer.

**Inhalation Sensitization** No data available to indicate product or components may be respiratory sensitizers.

**Chronic Toxicity** No data available to indicate product or components present at greater than 1% are chronic

health hazards.

-- CHRONIC EXPOSURE --

**Carcinogenicity** No data available to indicate any components present at greater than 0.1% may present a

carcinogenic hazard.

**Mutagenicity** No data available to indicate product or any components present at greater than 0.1% are

mutagenic or genotoxic.

**Reproductive Toxicity** No data available to indicate either product or components present at greater than 0.1% that

may cause reproductive toxicity.

**Teratogenicity** No data available to indicate product or any components contained at greater than 0.1% may

cause birth defects.

**Other** Under decomposition conditions, isocyanates may be generated from this product.

Isocyanates can cause skin sensitization and/or respiratory sensitization. Pre-existing skin conditions may be aggravated by prolonged or repeated exposure. Persons with sensitive

airways (e.g., asthmatics) may react to vapors.

-- ADDITIONAL INFORMATION --

12 Ecological Information

Freshwater Fish Toxicity Freshwater Invertebrates Not determined.

**Toxicity** Not determined.

Algal Inhibition Not determined.

Saltwater Fish Toxicity Not determined.

Saltwater Invertebrates

Toxicity
Bacteria Toxicity
Miscellaneous Toxicity
Not determined.
Not determined.

**Biodegradation** Adequate data is not available to estimate the biodegradation potential of this material.

-- ENVIRONMENTAL FATE --

**Bioaccumulation** Less than 1.0% of the components potentially bioconcentrate, based on octanol/water

coefficients.

**Soil Mobility** Not determined.

13 Disposal Considerations

**Waste Disposal** This material, if discarded, is not a hazardous waste under RCRA Regulation 40 CFR 261.

Treatment, storage, transportation, and disposal must be in accordance with applicable

Federal, State/Provincial, and Local regulations.

14 Transport Information

ICAO/IATA II Not regulated.

IMDG Not regulated.

IMDG EMS Fire Not applicable.

IMDG EMS Spill Not applicable.

IMDG MFAG Not applicable.

MARPOL Annex II Not determined.

USCG Compatibility Not determined.

Review classification requirements before shipping materials at elevated temperatures.

15 Regulatory Information

#### -- Global Chemical Inventories --

**USA** All components of this material are on the US TSCA Inventory or are exempt.

All components are in compliance with the EC Seventh amendment Directive 92 /32/EEC.

Japan All components are in compliance with the Chemical Substances Control Law of Japan. Australia

All components are in compliance with chemical notification requirements in Australia. New Zealand May require notification before sale under New Zealand regulations.

Canada All components are in compliance with the Canadian Environmental Protection Act and are

present on the Domestic Substances List.

**Switzerland** May require notification before sale in Switzerland.

**Korea** All components are in compliance in Korea.

**Philippines** All components are in compliance with the Philippines Toxic Substances and Hazardous and

Nuclear Wastes Control Act of 1990 (R.A. 6969).

**China** This product requires notification in China.

# -- Product Registrations --

**U.S. Dept of Agriculture NSF Nonfood Compounds**  This product has not been filed with the USDA to support H2 approvals.

This product has not been filed with the NSF to support H1 or H2 approvals.

Registration Finnish Registration

Not Registered

Number Swedish Registration

Not Registered

Number Norwegian Registration

Not Registered

Number Danish Registration

Not Registered Number Swiss Registration Number Not Registered

Italian Registration Number Not Registered

**Korean Registration** 

Not Registered

Number

# -- Other / International --

FDA Approval Not applicable. Other TSCA Reg. None known.

SARA Ext. Haz. Subst. This product does not contain greater than 1.0% of any chemical substance on the SARA

Extremely Hazardous Substances list.

**SARA Section 313** This product does not contain greater than 1.0% (greater than 0.1% for carcinogenic

substance) of any chemical substances listed under SARA Section 313.

**CERCLA Hazardous** 

None known. **Substances** 

Cal. Prop. 65 This product does not intentionally contain any chemicals known by the State of California to

cause cancer and/or birth defects. Moreover, we do not routinely analyze its products for

impurities which may be such chemicals.

#### 16 Other Information

Health	Fire	Reactivity	Special
2	1	0	N/E

(N/E) - None established

**HMIS Codes** 

Health	Fire	Reactivity
0	1	0

**Precautionary Labels** 

This material has no known health hazards.

**Revision Indicators** 

Section: 7 Handling procedures. Changed: 01/01/2017 Section: 16 HMIS codes. Changed: 01/01/2017 Section: 16 NFPA Codes. Changed: 01/01/2017

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