1. Product Identification

Product Name: Fusion Red
Product Description: Abrasive media manufactured from recycled glass and mined industrial almandine garnet.
Product Identifier: Soda-Lime Glass/ Almandine and Pyrope Garnet, Glass Oxide/ Almandine and Pyrope Garnet.

Crushed Glass:	Environmental Abrasives Warehouse LLC 4301 S. Federal Way Boise, ID 83716 **Phone** (208) 947-1351	**Garnet:**	Servicios Mineros del Noroeste,S.A. de C.V. Av. Reforma 1507 , Colonia Nueva 21100 Mexicali, B.C. Mexico **Phone** (686) 548-7654

2. Hazard Identification

Emergency Overview: Non-flammable brownish red solid or powder. Abrasive particulate may cause minor eye and skin irritation. Inhalation of high concentrations may cause transient upper respiratory irritation. Product is noncombustibleand stable.
Primary Route(s) of Entry: **Inhalation:** Yes, **Ingestion:** No, **Skin:** No**, Other:** No
Potential Health Effects – Acute:

- **Eye**: Dusts may cause minor irritation, may scratch the cornea or cause other mechanical injury to the eye.
- **Skin**: May cause minor irritation. Not absorbed through skin.
- **Ingestion**: Relatively non-toxic. Ingestion is not anticipated under normal working conditions.
- **Inhalation**: Product will act as a nuisance dust. Inhalation of high concentrations of dust may cause coughing and mild, transitory respiratory irritation. May cause slight to moderate irritation of mucous membranes.

Potential Health Effects – Chronic:

- **Inhalation**: Long-term dust inhalation in excess of the PEL or TLV may decrease the ability of the lungs to clear particulate matter which may cause shortness of breath and increased susceptibility to respiratory disease.
- **Signs And Symptoms**: Irritation, redness, pain, tear formation, blurred vision, light sensitivity, shortness of breath, decreased chest expansion, dry cough, and fatigue.
- **Medical Conditions Aggravated By Exposure**: Repeated inhalation of dusts over time may aggravate pre-existing respiratory disease. Precautions should be taken to alleviate the pre-existing medical condition.
- **Target Organs**: Lungs, eyes
- **Carcinogenicity**: **NTP**: No, **IARC**: No, **OSHA**: No

Glass and garnet abrasives are not classified as hazardous materials by criteria of the OSHA Hazard Communication Standard,Title 29, Code of Federal Regulations, Section 1910.1200, Hazard Communication. Nuisance Dust concern.
Glass abrasive contains no crystalline silica; Garnet abrasive 0.4 – 3% misc. trace minerals of Hornblende, Biotite, Feldspar, Ilmenite, Zircon and Silica.

3. Composition/Information on Ingredients

Common Name	Crushed Glass	**Common Name**	Almandine Garnet
Synonyms	Recycled Glass, Soda-Lime Dioxide Glass	**Synonyms**	Almandine and Pyrope Garnet Glass
CAS Number	65997-17-3	**CAS Number**	1302-62-1
Color/Appearance	Brownish	**Color/Appearance**	Red, Pink
Odor	Oderless	**Odor**	Oderless
Typically		**Typically**	
Silicon Dioxide (amorphous) SiO_2	72%	**Almandite $(Fe,Mg)_3Al_2(SiO_4)_3$**	98%
Sodium Oxide - Na_2O	15%	**Other**	Trace
Calcium Oxide (Soda Ash)-CaO	10%	(Hornblende, Biotite, Feldspar, Ilmenite, Zircon, Silica)	
Other	Trace		

4. First Aid Information

- **Ingestion:** Do not induce vomiting.
- **Inhalation:** Remove to fresh air. If symptoms persist, obtain medical attention.
- **Skin Contact:** Soak in warm water.
- **Eye Contact:** Flush with water.

5. Fire Fighting Measures

- **Flash Point:** N/A
- **Flammable Properties:** Material will not burn. Use media that is appropriate for fighting fire.
- **Clothing:** Wear appropriate protective clothing.
- **Respirators:** Wear a NIOSH-approved (or equivalent) respirator.

6. Accidental Release Measures

Vacuum or sweep up material and place in a disposal container. Do not allow material to enter sewer or waterways. This material is not defined as hazardous under 40 CFR 261. Disposal in a landfill in accordance with all applicable federal, state, and local laws or regulations is recommended.

7. Handling and Storage

- **Handling –** Minimize dust generation and accumulation. Use adequate ventilation, and avoid breathing dusts.
- **Storage –** Store in a dry place.

8. Exposure Controls and Personal Protection

- **VENTILATION AND ENGINEERING CONTROLS:** Use with adequate ventilation. Local exhaust ventilation is preferred, and should be designed by a professional industrial hygienist.
- **RESPIRATORY PROTECTION:** In enclosed spaces maintain oxygen levels above 19.5%. Use supplied air respiratory protection if oxygen levels are below 19.5%. If respiratory protection is required, follow the requirements of the Federal OSHA Respiratory Protection Standard (29 CFR 1910.134) or equivalent State standards.
- **EYE PROTECTION:** Splash goggles or safety glasses are recommended.
- **HAND PROTECTION:** Wear any polymer gloves resistant to tears if prolonged exposure to powder is expected.
- **BODY PROTECTION:** Use body protection appropriate for task.

9. Physical and Chemical Properties

Product	Crushed Glass	Almandine Garnet	Fusion Red Blend
CAS Number	65997-17-3	1302-62-1	NA
Color/Appearance	Brownish	Red or Pink	Reddish Brown
pH	NA	NA	NA
Water Solubility	Negligible	Non	Negligible
Volatility	Stable	Stable	Stable
Physical State	Grain or Powder	Grain or Powder	Grain or Powder
Specific Gravity	2.45 – 2.55 g/cm^3	3.9 – 4.1 g/cm^3	2.9 – 3.1 g/cm^3
Max Use Temperature	<573 ºC	<1,315 ºC	<573 ºC
Melting Point	573 ºC	1,315 ºC	573 ºC
Molecular Composition	SiO_2, Na_2O, CaO	$(Fe,Mg)_3Al_2(SiO_4)_3$	Combined

10. Stability and Reactivity

Material is stable. No known conditions causing instability. There are no known incompatible materials.

11. Toxicological Information

Poses little or no immediate hazard. This material is stable.

12. Ecological Information

Poses little or no immediate hazard. This material is stable.

13. Disposal Considerations

This material, if discarded, is not defined as hazardous under 40 CFR 261. Disposal in a landfill in accordance with applicable federal, state, and local laws or regulations is recommended.

14. Transportation Information

No DOT labels are required for this material, and no DOT Hazard I.D. Number has been assigned, and no DOT shipping restrictions apply.

15. Regulatory Information

Judgments as to the suitability of the information herein are for purchaser's purposes and are necessarily purchaser's responsibility. Although reasonable care has been taken in the preparation of such information, ENVIRONMENTAL ABRASIVES makes no representations, and assumes no responsibility as to the accuracy or suitability of such information for application to purchasers intended purposes or for consequences of its use.

16. Other Information

Emergency Phone: CHEMTREC 800-424-9300