

Section 1: Identification of the Substance/Mixture and of the Company/Undertaking

1.1 Product identifier Product Name Garnet Abrasive Grains and Powders Synonyms Almandine and Pyrope Garnet • Trade Names: 30x40, 30x60PLUS, 30/60, CG, HPA, HPX, MG, MicroGarnet 1.2 Relevant identified uses of the substance or mixture and uses advised against Relevant identified use(s) · Industrial Abrasives 1.3 Details of the supplier of the safety data sheet Manufacturer Barton International Six Warren Street Glens Falls, NY 12801 **United States** www.barton.com info@barton.com Telephone (General) • (800) 741 7756

Telephone (General) • (518) 798 5462

1.4 Emergency telephone number

Manufacturer • (518) 798 5462

Section 2: Hazards Identification

EU/EEC

According to: Regulation (EC) No 1272/2008 (CLP)/REACH 1907/2006 [amended by 2015/830] According to: EU Directive 67/548/EEC (DSD) or 1999/45/EC (DPD)

2.1 Classification of the substance or mixture

- CLP Not classified
- **DSD/DPD** Not classified

2.2 Label Elements

- CLP
- Hazard statements No label element(s) required

DSD/DPD

Risk phrases • No label element(s) required

- 2.3 Other Hazards
- **CLP** According to Regulation (EC) No. 1272/2008 (CLP) this material is not considered hazardous.
- **DSD/DPD** According to European Directive 1999/45/EC this material is not considered dangerous.

United States (US) According to: OSHA 29 CFR 1910.1200 HCS

2.1 Classification of the substance or mixture

OSHA HCS 2012

Specific Target Organ Toxicity Single Exposure 3: Respiratory Tract Irritation

2.2 Label elements OSHA HCS 2012

WARNING



May cause respiratory irritation
 Avoid breathing dust. Use only outdoors or in a well-ventilated area.
 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/doctor/ if you feel unwell.
 Store locked up. Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.
 Under United States Regulations (29 CFR 1910.1200 - Hazard Communication Standard), this product is considered hazardous.

Canada According to: WHMIS 2015

2.1 Classification of the substance or mixture

WHMIS 2015 • Not classified

2.2 Label elements

WHMIS 2015

Hazard statements • No label element(s) required

Precautionary

statements

2.3 Other hazards

WHMIS 2015

• In Canada, the product mentioned above is not considered hazardous under the Workplace Hazardous Materials Information System (WHMIS).

Section 3 - Composition/Information on Ingredients

3.1 Substances

• Material does not meet the criteria of a substance in accordance with Regulation (EC) No 1272/2008.

3.2 Mixtures

	Composition								
Chemical Name	Identifiers	%	LD50/LC50	Classifications According to Regulation/Directive					
Almandine-Ferric Aluminum Silicate	CAS:1302-62-1	94% TO 99.6%	NDA	EU CLP: Not Classified OSHA HCS 2012: Not Classified WHMIS 2015:					
Total Quartz (non- respirable and respirable)	CAS:14808-60-7 EC Number:238- 878-4	< 1%	NDA	EU CLP: Not Classified OSHA HCS 2012: Not Classified WHMIS 2015: Not Classified					
Iron	CAS :7439-89-6 EC Number :231- 096-4	0.01% TO 0.2%	Ingestion/Oral-Rat LD50 • 750 mg/kg	EU CLP: Self Classified: STOT SE 3: Resp. Irrit., H335; STOT RE 2 (Lungs, Liver), H373; Acute Tox. 4 (oral), H302 OSHA HCS 2012: STOT SE 3: Resp. Irrit.; STOT RE 2 (Lungs, Liver); Acute Tox 4 (oral) WHMIS 2015:					
Hornblende	CAS:12178-42-6	0.01% TO 0.2%	NDA	EU CLP: Not Classified OSHA HCS 2012: Not Classified WHMIS 2015:					
Feldspars	CAS:68476-25-5 EC Number:270- 666-7	0.01% TO 0.2%	NDA	EU CLP: Not Classified OSHA HCS 2012: Not Classified WHMIS 2015:					
Respirable Quartz (<10 microns)	CAS:14808-60-7 EC Number:238- 878-4	< 0.1%	NDA	EU CLP: Self Classified: STOT RE 1, H372 OSHA HCS 2012: Carc. 1A; STOT RE 1 (Lungs, Inhl) WHMIS 2015:					

Section 4 - First Aid Measures

4.1 Description of first aid measures

 Inhalation
 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Administer oxygen if breathing is difficult. Give artificial respiration if victim is not breathing. Get medical attention immediately.

- **Skin** In case of contact with substance, immediately flush skin with running water for at least 20 minutes. Wash skin with soap and water.
- **Eye** In case of contact with substance, immediately flush eyes with running water for at least 20 minutes. If eye irritation persists: Get medical advice/attention.
- **Ingestion** Get medical attention if symptoms occur.

4.2 Most important symptoms and effects, both acute and delayed

• Refer to Section 11 - Toxicological Information.

4.3 Indication of any immediate medical attention and special treatment needed

Notes to
 Physician
 All treatments should be based on observed signs and symptoms of distress in the patient.
 Consideration should be given to the possibility that overexposure to materials other than this product may have occurred.

Section 5 - Firefighting Measures

5.1 Extinguishing media Suitable Extinguishing Media

• In case of fire use media as appropriate for surrounding fire.

Unsuitable Extinguishing Media

• No data available.

5.2 Special hazards arising from the substance or mixture

Unusual Fire and Explosion Hazards • None

Hazardous Combustion Products • No data available.

5.3 Advice for firefighters

• Wear positive pressure self-contained breathing apparatus (SCBA). Structural firefighters' protective clothing will only provide limited protection.

Section 6 - Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal Precautions	 Do not walk through spilled material. Wear appropriate Personal Protective Equipment (PPE)
Emergency Procedures	 As an immediate precautionary measure, isolate spill or leak area for at least 25 meters (75 feet) in all directions.
6.2 Environmental pre	ecautions
	 Avoid run off to waterways and sewers.
6.3 Methods and mate	erial for containment and cleaning up
Containment/Clean-up Measures	 Avoid generating dust. Use wet-methods or vacuum up material for disposal or recovery.
6.4 Reference to othe	r sections
	Refer to Section 8 - Exposure Controls/Personal Protection and Section 13 - Dispose

osal Considerations.

Section 7 - Handling and Storage

7.1 Precautions for safe handling

Handling • No special precautions necessary for normal handling of the material. Use only with adequate ventilation. Do not breathe dust. Wear appropriate personal protective equipment, avoid direct contact.

7.2 Conditions for safe storage, including any incompatibilities

Storage • No special precautions necessary for normal storage of the material. Keep container/package tightly closed and in a well-ventilated place. Store locked up.

7.3 Specific end use(s)

Refer to Section 1.2 - Relevant identified uses.

Section 8 - Exposure Controls/Personal Protection

8.1 Control parameters

	-	Exposure Limits/Guidelines						
	Result	ACGIH	OSHA	Argentina	Austria	Belgium	Chile	
Respirable Quartz (<10 microns) (14808-60-7)	TWAs	TWA (respirable fraction)	Action Level	0.05 mg/m3 TWA [CMP] (respirable fraction)	Not established	0.1 mg/m3 TWA	0.08 mg/m3 TWA LPP (respirable fraction)	
		0.025 mg/m3 TWA (respirable fraction)		0.05 mg/m3 TWA [CMP] (respirable fraction)			0.08 mg/m3 TWA LPP (respirable fraction)	

			espirable					
			espirable action)					
Ν	MAKs I	Not established	lot established	Not establi	shed	0.15 mg/m3 T [TMW] (yearly average, valid 12/31/2013, tl assessment period is one alveolar dust, respirable frac 0.15 mg/m3 T [TMW] (yearly average, valid 12/31/2013, tl assessment period is one alveolar dust, respirable frac	year, ction) WA till wA till ne year,	Not established
			Exposure I	_imits/Gu	ideline	•)	
	Resu	t China		Republic		enmark	Finland	France
Respirable Quartz (<10 microns) (14808-60-7)	STEL	2 mg/m3 STEL (containing 10 - 50 free SiO2, total dua 1.4 mg/m3 STEL (containing 50 - 80 free SiO2, total dua 1 mg/m3 STEL (containing >80% free SiO2, total dua 1.4 mg/m3 STEL (containing 10 - 50 free SiO2, respirate dust); 0.6 mg/m3 STEL (containing 50 - 80% free SiO2, respirate dust); 0.6 mg/m3 STEL (containing >80% free SiO2, respirate dust) 2 mg/m3 STEL (containing 10 - 50 free SiO2, total dua 1.4 mg/m3 STEL (containing 50 - 800 free SiO2, total dua 1.4 mg/m3 STEL (containing 50 - 800 free SiO2, total dua 1 mg/m3 STEL (containing 50 - 800 free SiO2, total dua 1.4 mg/m3 STEL (containing 10 - 50 free SiO2, respirate dust); 0.6 mg/m3 STEL (containing 5 - 80% free SiO2, respirate dust); 0.6 mg/m3	st); st);	shed	Not esta	ablished	Not established	Not established
	TWAs	0.7 mg/m3 TWA (containing 50 - 80 free SiO2, total dus 0.3 mg/m3 TWA (containing 50 - 80 free SiO2, respirat dust); 1 mg/m3 TW	st); (dust) 0% 0.1 mg/m3 ble (dust)	TWA	(total); (TWA (re 0.3 mg/ (total); (m3 TWA 0.1 mg/m3 espirable) m3 TWA 0.1 mg/m3 espirable)	0.05 mg/m3 TWA (respirable, listed under Silicon dioxide, crystalline) 0.05 mg/m3 TWA (respirable, listed	0.1 mg/m3 TWA [VME] (restrictive limit, alveolar fraction) 0.1 mg/m3 TWA [VME] (restrictive

		dust); 0.5 mg/m3 TWA (containing >80% free SiO2, total dust); 0.2 mg/m3 TWA (containing >80% free SiO2, respirable dust) 0.7 mg/m3 TWA (containing 50 - 80% free SiO2, total dust); 0.3 mg/m3 TWA (containing 50 - 80% free SiO2, respirable dust); 1 mg/m3 TWA (containing 10 - 50% free SiO2, respirable dust); 0.5 mg/m3 TWA (containing >80% free SiO2, total				
		dust); 0.2 mg/m3				
		TWA (containing >80% free SiO2,				
		respirable dust)	kposure Limits/Gu	idelines (Con't)		
	Result	Indonesia	Korea	Mexico	Netherlands	New Zealand
Iron (7439-89-6)	TWAs	1 mg/m3 TWA	Not established	Not established	Not established	Not established
Respirable Quartz (<10 microns) (14808-60-7)	TWAs	0.1 mg/m3 TWA (respirable particulate) 0.1 mg/m3 TWA (respirable particulate)	0.05 mg/m3 TWA (respirable fraction, Serial No. 264) 0.05 mg/m3 TWA (respirable fraction, Serial No. 264)	0.1 mg/m3 TWA LMPE-PPT (respirable fraction)	0.075 mg/m3 TWA (respirable dust, listed under Silicium dioxide) 0.075 mg/m3 TWA (respirable dust, listed under Silicium dioxide)	0.2 mg/m3 TWA (respirable dust) 0.2 mg/m3 TWA (respirable dust)
		F	(nacura Limita/Gu	idelines (Con't.)		
			kposure Linnis/Gu			
	Result	NIOSH	Norway	Poland	Russia	Slovak Republic
lron (7439-89-6)				· · · · · ·	Russia 10 mg/m3 TWA (aerosol)	Slovak Republic 6.0 mg/m3 TWA (total aerosol)

				total dust mg/m3 T containing Quartz, C and/or Tr evaluated	is I by on formula,); 0.1 WA (Dust g.alpha cristobalite idymite is I by on formula,	crystalline silie inhalable frac 0.3 mg/m3 TV [NDS] (>50% crystalline silie respirable frac 4.0 mg/m3 TV [NDS] (2% to free crystalline inhalable frac 1.0 mg/m3 TV [NDS] (2% to free crystalline respirable frac	etion); NA free ca, ction); NA 50% e silica, etion); NA 50% e silica,	TWA (total mass of aerosols, listed un Crystalline silicon dioxide)		
ST	ΓELs	Not e		Not estab		Not establishe		3 mg/m3 STEL (glass, disintegrati aerosol, total mass aerosols, listed un Silicon dioxide amorphous and vitreous); 3 mg/m3 STEL (regulated under Quartz, tota mass of aerosols, listed under Silicor dioxide crystalline) 3 mg/m3 STEL (glass, disintegrati aerosol, total mass aerosols, listed un Silicon dioxide amorphous and vitreous); 3 mg/m3 STEL (regulated under Quartz, tota mass of aerosols, listed under Silicor dioxide crystalline)	s of der l l ((((der) der) l	0.5 mg/m3 STEL 0.5 mg/m3 STEL
	Ro	sult	Ex Spain	cposure		idelines (Co eden		witzerland		Venezuela
	Res	suit	Spain		SWG					VEIIEZUEIA

	Result	Spain	Sweden	Switzerland	Venezuela
	MAKs	Not established	Not established	0.15 mg/m3 TWA [MAK] (respirable dust) 0.15 mg/m3 TWA [MAK] (respirable dust)	Not established
Respirable Quartz (<10 microns) (14808-60-7)	TWAs	0.05 mg/m3 TWA [VLA- ED] (reclassified IARC group 2A to group 1, respirable fraction) 0.05 mg/m3 TWA [VLA- ED] (reclassified IARC group 2A to group 1, respirable fraction)	0.1 mg/m3 LLV (respirable dust) 0.1 mg/m3 LLV (respirable dust)	Not established	0.025 mg/m3 TWA [VTRE-L-8/40 (respirable fraction) 0.025 mg/m3 TWA [VTRE-L-8/40 (respirable fraction)

Exposure Control Notations

Switzerland

•Respirable Quartz (<10 microns) (14808-60-7): Carcinogens: (Category C1A carcinogen) | Carcinogens: (Category C1A carcinogen) | Developmental Risk Groups: (Developmental Risk Group C) | Developmental Risk Groups: (Developmental Risk Group C) Norwey

Norway

•Respirable Quartz (<10 microns) (14808-60-7): Carcinogens: (Carcinogen) | Carcinogens: (Carcinogen)

Argentina

•Respirable Quartz (<10 microns) (14808-60-7): Carcinogens: (A2 - Suspected human carcinogen) | Carcinogens: (A2 - Suspected human carcinogen) Chile

•Respirable Quartz (<10 microns) (14808-60-7): Carcinogens: (A1 - Confirmed Human Carcinogen) | Carcinogens: (A1 - Confirmed Human Carcinogen)

Sweden

•Respirable Quartz (<10 microns) (14808-60-7): Carcinogens: (Carcinogen) | Carcinogens: (Carcinogen)

Venezuela

•Respirable Quartz (<10 microns) (14808-60-7): Ceilings: (Present) | Ceilings: (Present)

Germany DFG

•Respirable Quartz (<10 microns) (14808-60-7): Carcinogens: (Category 1 (causes cancer in man, alveola fraction)) | Carcinogens: (Category 1 (causes cancer in man, alveola fraction))

Exposure Limits Supplemental OSHA

•Respirable Quartz (<10 microns) (14808-60-7): **Mineral Dusts:** ((30)/(%SiO2 + 2) mg/m3 TWA, total dust; (250)/(%SiO2 + 5) mppcf TWA, respirable fraction; (10)/(%SiO2 + 2) mg/m3 TWA, respirable fraction) | **Mineral Dusts:** ((30)/(%SiO2 + 2) mg/m3 TWA, total dust; (250)/(%SiO2 + 5) mppcf TWA, respirable fraction; (10)/(%SiO2 + 2) mg/m3 TWA, respirable fraction)

8.2 Exposure controls

Engineering	• Good general ventilation should be used. Ventilation rates should be matched to conditions.
Measures/Controls	If applicable, use process enclosures, local exhaust ventilation, or other engineering controls
	to maintain airborne levels below recommended exposure limits. If exposure limits have not
	been established, maintain airborne levels to an acceptable level. Maintain good
	housekeeping standards and do not allow this material to accumulate in areas where it can
	be re-suspended in air. Clean up spills and dispose of properly.

Personal Protective Equipment

Respiratory	 For limited exposure use an N95 dust mask. For prolonged exposure use an air-purifying respirator with high efficiency particulate air (HEPA) filters. Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or symptoms are experienced.
Eye/Face	• Wear safety glasses.
Skin/Body	Wear protective clothing and gloves.
Environmental Exposure Controls	 Controls should be engineered to prevent release to the environment, including procedures to prevent spills, atmospheric release and release to waterways. Follow best practice for site management and disposal of waste.

Key to abbreviations

ACGIH = American Conference of Governmental Industrial Hygiene	PEL = Permissible Exposure Level determined by the Occupational Safety and Health Administration (OSHA)
LLV = Limit Level Value is the exposure limit for 8-hour work day	STEL = Short Term Exposure Limits are based on 15-minute exposures
MAK = Maximale Arbeitsplatz Konzentration is the maximum permissible concentration	STEV = Short Term Exposure Value
MAC = Maximum Allowable Concentration	TLV = Threshold Limit Value determined by the American Conference of Governmental Industrial Hygienists (ACGIH)
NIOSH = National Institute of Occupational Safety and Health OSHA = Occupational Safety and Health Administration	TWA = Time-Weighted Averages are based on 8h/day, 40h/week exposures

Section 9 - Physical and Chemical Properties

9.1 Information on Basic Physical and Chemical Properties

Material Description				
Physical Form	Solid	Appearance/Description	Reddish brown to pink grains with no odor.	
Color	Reddish brown to pink.	Odor	Odorless	
Particulate Size	Varies upon customer demand	Odor Threshold	Data lacking	
General Properties				
Boiling Point	Data lacking	Melting Point/Freezing Point	1315 °C(2399 °F)	
Decomposition Temperature	> 750 °C(> 1382 °F)	рН	Not relevant	
Specific Gravity/Relative Density	= 4.1 Water=1	Bulk Density	2.4 g/cm ³	

Water Solubility	Insoluble	Viscosity	Data lacking
Explosive Properties	Non-explosive	Oxidizing Properties:	Data lacking
Volatility			
Vapor Pressure	Not relevant	Vapor Density	Not relevant
Evaporation Rate	Not relevant	VOC (Wt.)	Not relevant
Flammability			
Flash Point	Not relevant	UEL	Not relevant
LEL	Not relevant	Autoignition	Data lacking
Flammability (solid, gas)	Non-flammable		
Environmental			
Octanol/Water Partition coefficient	Data lacking		

9.2 Other Information

• No additional physical and chemical parameters noted.

Section 10: Stability and Reactivity

10.1 Reactivity

• No dangerous reaction known under conditions of normal use.

10.2 Chemical stability

Stable

10.3 Possibility of hazardous reactions

• Hazardous polymerization will not occur.

10.4 Conditions to avoid

• No data available.

10.5 Incompatible materials

• None known.

10.6 Hazardous decomposition products

• None known.

Section 11 - Toxicological Information

11.1 Information on toxicological effects

	Components				
v	7439- 89-6	Acute Toxicity: Ingestion/Oral-Rat LD50 • 750 mg/kg; <i>Blood</i> :Changes in serum composition (e.g., TP, bilirubin cholesterol); <i>Biochemical:Enzyme inhibition, induction, or change in blood or tissue levels</i> :Transaminases			
	14808- 60-7	Acute Toxicity: Inhalation-Human TCLo • 16 mppcf 8 Hour(s) 17.9 Year(s)-Intermittent; <i>Lungs, Thorax, or</i> <i>Respiration</i> :Fibrosis, focal (pneumoconiosis); <i>Lungs, Thorax, or Respiration</i> :Cough; <i>Lungs, Thorax, or</i> <i>Respiration</i> :Dyspnea; Inhalation-Rat TCLo • 200 mg/kg; <i>Lungs, Thorax, or Respiration</i> :Fibrosis, focal (pneumoconiosis); <i>Lungs, Thorax, or Respiration</i> :Other changes; <i>Nutritional and Gross Metabolic</i> :Changes in <i>Chemistry or Temperature</i> :Fe; Multi-dose Toxicity: Inhalation-Hamster TCLo • 3 mg/m ³ 6 Hour(s) 78 Week(s)-Intermittent; <i>Lungs, Thorax, or</i> <i>Respiration</i> :Fibrosis (interstitial); <i>Lungs, Thorax, or Respiration</i> :Changes in lung weight; Inhalation-Rat TCLo • 6.2 mg/m ³ 6 Hour(s) 6 Week(s)-Intermittent; <i>Lungs, Thorax, or Respiration</i> :Other changes; <i>Blood</i> :Changes in spleen; <i>Immunological Including Allergic</i> :Increase in cellular immune response; Inhalation-Rat TCLo • 80 mg/m ³ 26 Week(s)-Intermittent; <i>Lungs, Thorax, or Respiration</i> :Fibrosis, focal (pneumoconiosis); <i>Blood</i> :Changes in spleen; <i>Immunological Including Allergic</i> :Decrease in cellular immune response; Tumorigen / Carcinogen: Inhalation-Rat TCLo • 50 mg/m ³ 6 Hour(s) 71 Week(s)-Intermittent; <i>Tumorigenic</i> :Carcinogenic by RTECS criteria; <i>Liver</i> :Tumors			

GHS Properties	Classification
Skin sensitization	EU/CLP•Data lacking OSHA HCS 2012•Data lacking WHMIS 2015•Data lacking
Toxicity for Reproduction	EU/CLP•Data lacking OSHA HCS 2012•Data lacking WHMIS 2015•Data lacking
Germ Cell Mutagenicity	EU/CLP•Data lacking OSHA HCS 2012•Data lacking WHMIS 2015•Data lacking
Aspiration Hazard	EU/CLP•Data lacking OSHA HCS 2012•Data lacking WHMIS 2015•Data lacking
Respiratory sensitization	EU/CLP•Data lacking OSHA HCS 2012•Data lacking WHMIS 2015•Data lacking
Carcinogenicity	EU/CLP•Data lacking OSHA HCS 2012•Data lacking WHMIS 2015•Data lacking
STOT-RE	EU/CLP•Data lacking OSHA HCS 2012•Data lacking WHMIS 2015•Data lacking
STOT-SE	EU/CLP•Data lacking OSHA HCS 2012•Specific Target Organ Toxicity Single Exposure 3: Respiratory Tract Irritation WHMIS 2015•Data lacking
Acute toxicity	EU/CLP•Data lacking OSHA HCS 2012•Data lacking WHMIS 2015•Data lacking
Serious eye damage/Irritation	EU/CLP•Data lacking OSHA HCS 2012•Data lacking WHMIS 2015•Data lacking
Skin corrosion/Irritation	EU/CLP•Data lacking OSHA HCS 2012•Data lacking WHMIS 2015•Data lacking

Potential Health Effects

Inhalation	
Acute (Immediate)	• May cause respiratory irritation.
Chronic (Delayed) Skin	 Inhalation of respirable dusts containing crystalline silica above applicable regulatory PEL's may cause lung injury or disease including silicosis and/or cancer.
Acute (Immediate)	• May cause abrasions.
Chronic (Delayed) Eye	• No data available

Chronic • N (Delayed) Carcinogenic • C	No data available Carcinogen classification does not apply to the material due to the low amount of respirable quartz.
Chronic • N	No data available
· · · ·	
Acute • № (Immediate)	No known eff ects, however ingestion not recommended.
Ingestion	
Chronic • № (Delayed)	No data available
Acute • E (Immediate)	Exposure to dust may cause irritation.

		Carcinogenic Effects	
	CAS	IARC	NTP
Respirable Quartz (<10 microns)	14808-60-7	Group 1-Carcinogenic	Known Human Carcinogen

Key to abbreviations

LD = Lethal Dose

TC = Toxic Concentration

Section 12 - Ecological Information

12.1 Toxicity

• Material data lacking.

12.2 Persistence and degradability

• Material data lacking.

12.3 Bioaccumulative potential

• Material data lacking.

12.4 Mobility in Soil

• Material data lacking.

12.5 Results of PBT and vPvB assessment

• No PBT and vPvB assessment has been conducted.

12.6 Other adverse effects

• No studies have been found.

Section 13 - Disposal Considerations

13.1 Waste treatment methods

Continue 4.4	Trenenert Information
Packaging waste	 Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.
Product waste	 Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

Section 14 - Transport Information

	14.1 UN number	14.2 UN proper shipping name			14.5 Environmental hazards	
DOT	NDA	Not Regulated	NDA	NDA	NDA	
TDG	NDA	Not Regulated	NDA	NDA	NDA	
IMO/IMDG	NDA	Not Regulated	NDA	NDA	NDA	
IATA/ICAO	NDA	Not Regulated	NDA	NDA	NDA	

14.6 Special precautions for user

• None specified.

14.7 Transport in bulk according to Annex II of Marpol and the IBC Code • Data lacking.

Section 15 - Regulatory Information

Chronic

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

• Note: Almandine-Ferric Aluminum Silicate (Garnet) and minor constituents are a naturally occurring minerals and therefore are exempted from TSCA regulations in accordance with 710.4(b)(1).

SARA Hazard

Classifications

Inventory									
Component	CAS	Canada	DSL	Canada NDSL		China	EU EIN	IECS	EU ELNICS
Almandine-Ferric Aluminum Silicate	1302-62	-1 No		No	No	0	No		No
Respirable Quartz (<10 microns)	14808-60 7	4808-60- Yes		s No Yes Ye		Yes		No	
Feldspars	68476-25- 5 No			Yes	Ye	es	Yes		No
Hornblende	12178-4: 6	⁷⁸⁻⁴²⁻ No		No No M		No		No	
Iron	7439-89	-6 Yes		No	Ye	es	Yes		No
				Inventory (C	on'	t.)			
Componen	t	CAS		Korea KECL		New Zeala	and		TSCA
Almandine-Ferric A Silicate	luminum	1302-62-1	No			Yes	No		
Respirable Quartz (microns)	(<10	14808-60-7	Yes		Yes Yes		Yes		
Feldspars 684		68476-25-5	Yes			Yes		Yes	
Hornblende 1217		12178-42-6	No			No		No	
Iron		7439-89-6 Yes Yes Yes							

Belgium

Labor

Belgium - Substances and Preparations - Carcinogens and Mutagens		
•lron	7439-89-6	Not Listed
•Feldspars	68476-25-5	Not Listed
•Almandine-Ferric Aluminum Silicate	1302-62-1	Not Listed
•Respirable Quartz (<10 microns)	14808-60-7	Not Listed
•Hornblende	12178-42-6	Not Listed
Belgium - Substances and Preparations - Suspected Carcinogens and Mutagens		
•lron	7439-89-6	Not Listed
•Feldspars	68476-25-5	Not Listed
•Almandine-Ferric Aluminum Silicate	1302-62-1	Not Listed
•Respirable Quartz (<10 microns)	14808-60-7	
•Hornblende	12178-42-6	Not Listed

Canada

Labor

Canada - WHMIS - Classifications of Substances

Canada - WHMIS - Classifications of Substances		
•lron	7439-89-6	Uncontrolled product according to WHMIS classification criteria
•Feldspars	68476-25-5	Not Listed
•Almandine-Ferric Aluminum Silicate	1302-62-1	Not Listed
		D2A (In certain cases, this classification does not apply. For more information, consult the section
•Respirable Quartz (<10 microns)	14808-60-7	Substance Specific Issues - Silica, crystalline, encapsulated on Health Canada's WHMIS Division website.)
•Hornblende	12178-42-6	Not Listed
Canada - WHMIS - Ingredient Disclosure List		
•lron	7439-89-6	Not Listed
•Feldspars	68476-25-5	Not Listed
•Almandine-Ferric Aluminum Silicate	1302-62-1	Not Listed
•Respirable Quartz (<10 microns)	14808-60-7	1 %
•Hornblende	12178-42-6	Not Listed
Environment		
Canada - CEPA - Priority Substances List		
•lron	7439-89-6	Not Listed
•Feldspars	68476-25-5	Not Listed
 Almandine-Ferric Aluminum Silicate 	1302-62-1	Not Listed
•Respirable Quartz (<10 microns)	14808-60-7	Not Listed
•Hornblende	12178-42-6	Not Listed
China		
Environment		
China - Ozone Depleting Substances - First Schedule		
•lron	7439-89-6	Not Listed
•Feldspars	68476-25-5	Not Listed
 Almandine-Ferric Aluminum Silicate 	1302-62-1	Not Listed
•Respirable Quartz (<10 microns)	14808-60-7	Not Listed
•Hornblende	12178-42-6	Not Listed
China - Ozone Depleting Substances - Second Schedule	7400.00.0	
•Iron	7439-89-6	Not Listed
•Feldspars •Almandine-Ferric Aluminum Silicate	68476-25-5 1302-62-1	Not Listed Not Listed
•Respirable Quartz (<10 microns)	14808-60-7	Not Listed
•Respirable Qualtz (< to microns) •Hornblende	12178-42-6	Not Listed
China - Ozone Depleting Substances - Third Schedule		
•lron	7439-89-6	Not Listed
•Feldspars	68476-25-5	Not Listed
•Almandine-Ferric Aluminum Silicate	1302-62-1	Not Listed
•Respirable Quartz (<10 microns)	14808-60-7	Not Listed
•Hornblende	12178-42-6	Not Listed
Other		
China - Annex I & II - Controlled Chemicals Lists		
•lron	7439-89-6	Not Listed
•Feldspars	68476-25-5	Not Listed
Almandine-Ferric Aluminum Silicate	1302-62-1	Not Listed
	14808-60-7	Not Listed
•Respirable Quartz (<10 microns)		NI (1) ()
•Respirable Quartz (<10 microns) •Hornblende	12178-42-6	Not Listed
•Respirable Quartz (<10 microns)		Not Listed

•Feldspars	68476-25-5	Not Listed
•Almandine-Ferric Aluminum Silicate	1302-62-1	Not Listed
•Respirable Quartz (<10 microns)	14808-60-7	Not Listed
•Hornblende	12178-42-6	Not Listed
China - Dangerous Goods List	7400 00 0	
•lron	7439-89-6	Not Listed
•Feldspars •Almandine-Ferric Aluminum Silicate	68476-25-5 1302-62-1	Not Listed Not Listed
•Respirable Quartz (<10 microns)	14808-60-7	
•Hornblende	12178-42-6	Not Listed
China - Export Control List - Part I Chemicals	12170-42-0	NOT LISTED
•lron	7439-89-6	Not Listed
•Feldspars	68476-25-5	Not Listed
Almandine-Ferric Aluminum Silicate	1302-62-1	Not Listed
•Respirable Quartz (<10 microns)	14808-60-7	Not Listed
•Hornblende	12178-42-6	Not Listed
Denmark		
Environment		
Denmark - Advisory List for Self-Classification of Dangerous Substances		
•Iron	7439-89-6	Not Listed
•Feldspars	68476-25-5	Not Listed
•Almandine-Ferric Aluminum Silicate	1302-62-1	Not Listed
•Respirable Quartz (<10 microns)	14808-60-7	
•Hornblende	12178-42-6	Not Listed
Denmark - List of Undesirable Substances - Product Groups/Function		Hot Elotod
•lron	7439-89-6	Not Listed
•Feldspars	68476-25-5	Not Listed
•Almandine-Ferric Aluminum Silicate	1302-62-1	Not Listed
•Respirable Quartz (<10 microns)	14808-60-7	Not Listed
•Hornblende	12178-42-6	Not Listed
Denmark - List of Undesirable Substances - Reason for Selection •Iron	7439-89-6	Not Listed
•Feldspars	68476-25-5	Not Listed
•Almandine-Ferric Aluminum Silicate	1302-62-1	Not Listed
•Respirable Quartz (<10 microns)	14808-60-7	
•Hornblende	12178-42-6	Not Listed
Europe		
Environment		
EU - Air Pollution (2001/379/EC) - Heavy Metal Pollutants		
•lron	7439-89-6	Not Listed
•Feldspars	68476-25-5	Not Listed
•Almandine-Ferric Aluminum Silicate	1302-62-1	Not Listed
•Respirable Quartz (<10 microns)	14808-60-7	Not Listed
•Hornblende	12178-42-6	Not Listed
EU - Substances Depleting the Ozone layer (1005/2009) - Annex I Substances		
•lron	7439-89-6	Not Listed
•Feldspars	68476-25-5	Not Listed
•Almandine-Ferric Aluminum Silicate	1302-62-1	Not Listed
•Respirable Quartz (<10 microns) •Hornblende	14808-60-7	Not Listed
•Hompiende	12178-42-6	Not Listed
Other		
EU - Export and Import Restrictions (689/2008) - Chemicals and Articles Subject to	-	
•lron	7439-89-6	Not Listed
•Feldspars	68476-25-5	Not Listed
•Almandine-Ferric Aluminum Silicate	1302-62-1	Not Listed
•Respirable Quartz (<10 microns) •Hornblende	14808-60-7	Not Listed Not Listed
•Homblende EU - Export and Import Restrictions (689/2008) - Chemicals Qualifying for PIC Notif	12178-42-6	INUL LISLEO
•lron	7439-89-6	Not Listed
•Feldspars	68476-25-5	Not Listed

Almandine-Ferric Aluminum Silicate	1302-62-1	Not Listed
•Respirable Quartz (<10 microns)	14808-60-7	Not Listed
•Hornblende	12178-42-6	Not Listed
EU - Water Framework Directive (2000/60/EC) - List of Priority Substances - Annex X		
•lron	7439-89-6	Not Listed
•Feldspars	68476-25-5	Not Listed
•Almandine-Ferric Aluminum Silicate	1302-62-1	Not Listed
•Respirable Quartz (<10 microns)	14808-60-7	Not Listed
•Hornblende	12178-42-6	Not Listed
Germany		
-		
Labor		
Germany - Immission Control - Qualifying Quantities for Major Accident Prevention		
•lron	7439-89-6	Not Listed
•Feldspars	68476-25-5	Not Listed
•Almandine-Ferric Aluminum Silicate	1302-62-1	Not Listed
•Respirable Quartz (<10 microns)	14808-60-7	Not Listed
•Hornblende	12178-42-6	Not Listed
Germany - Immission Control - Qualifying Quantities for Safety Reporting	7400 00 0	NI 4124
•lron	7439-89-6	Not Listed
•Feldspars	68476-25-5	Not Listed
•Almandine-Ferric Aluminum Silicate	1302-62-1	Not Listed
•Respirable Quartz (<10 microns)	14808-60-7	Not Listed
•Hornblende Germany - TRGS 505 - Specific Lead Regulations	12178-42-6	Not Listed
• Iron	7439-89-6	Not Listed
•Feldspars	68476-25-5	Not Listed
•Almandine-Ferric Aluminum Silicate	1302-62-1	Not Listed
•Respirable Quartz (<10 microns)	14808-60-7	Not Listed
•Hornblende	12178-42-6	Not Listed
Germany - TRGS 511 - Specific Ammonium Nitrate Regulations	12110-42-0	NOT LISTOU
•lron	7439-89-6	Not Listed
•Feldspars	68476-25-5	Not Listed
•Almandine-Ferric Aluminum Silicate	1302-62-1	Not Listed
•Respirable Quartz (<10 microns)	14808-60-7	Not Listed
•Hornblende	12178-42-6	Not Listed
Environment		
Germany - TA Luft - Types and Classes	7400 00 0	
•lron	7439-89-6	Not Listed
•Feldspars	68476-25-5	Not Listed
•Almandine-Ferric Aluminum Silicate	1302-62-1	Not Listed
•Respirable Quartz (<10 microns)	14808-60-7	Not Listed
•Hornblende	12178-42-6	Not Listed
Germany - TA Luft - Emission Limits for Carcinogenic Substances Iron	7439-89-6	Not Listed
•Feldspars	68476-25-5	Not Listed
•Almandine-Ferric Aluminum Silicate	1302-62-1	Not Listed
•Respirable Quartz (<10 microns)	14808-60-7	Not Listed
•Hornblende	12178-42-6	Not Listed
Germany - TA Luft - Emission Limits for Fibers	12110 42 0	Not Elotod
•lron	7439-89-6	Not Listed
•Feldspars	68476-25-5	Not Listed
•Almandine-Ferric Aluminum Silicate	1302-62-1	Not Listed
•Respirable Quartz (<10 microns)	14808-60-7	Not Listed
•Hornblende	12178-42-6	Not Listed
Germany - TA Luft - Emission Limits for Inorganic Dusts		
•Iron	7439-89-6	Not Listed
•Feldspars	68476-25-5	Not Listed
•Almandine-Ferric Aluminum Silicate	1302-62-1	Not Listed
•Respirable Quartz (<10 microns)	14808-60-7	Not Listed
•Hornblende	12178-42-6	Not Listed
Germany - TA Luft - Emission Limits for Inorganic Gases		

	•lron	7439-89-6	Not Listed
 Amandine-Feric Auminum Silicate 1302-82-1 Nucl Listed Peoprintable Quartz (+10 microns) Peoprintable			
••espirable Quartz (*10 microns) 1408-00- Not Listed ••errany - TA Luf - Emission Limits for Organic Substances 7439-89-6 Not Listed ••on 6477-25-5 Not Listed ••errany - TA Luf - Emission Limits for Organic Substances 6477-25-5 Not Listed ••errany - Water Classification (WwWs) - Annex 1 1002-021-7 Not Listed ••form Imbine 6477-25-5 Not Listed ••form Imbine 1000-000-000-000-000-000-000-000-000-00			
+ Homblende 12178-42-6 Not Listed * Jon 7439-89-8 Not Listed * Jon 7439-89-8 Not Listed * Manardine-Ferric Aluminum Silicate 1302-62-1 Not Listed * Homblende 1302-62-1 Not Listed * Homblende 12178-42-6 Not Listed * Homblende 12178-42-6 Not Listed * Homblende 12178-42-6 Not Listed * Feldspars 4400-60-7 Not Listed * Homblende 12178-42-6 Not Listed * Feldspars 68476-25-5 Not Listed * Almandine-Ferric Aluminum Silicate 1302-62-1 Not Listed * Homblende 12178-42-8 Not Listed * Homblende 12178-42-5 Not Listed * Homblende 1302-62-1 Not Listed * Homblende 12178-42-8 Not Listed * Homblende 12178-42-8 Not Listed * Feldspars 68476-25-5 Not Listed * Homblende 12178-42-8 Not Listed * Feldspars 68476-25-5 Not Listed * Feldspars <			
Germany - TA Luft - Emission Limits for Organic Substances 7439-89-6 Nut Listed I-on 62476-255 Nut Listed I-clasparable Quartz (<10 microns)			
inon7439-89-6Not Listed		121/8-42-0	NOT LISTED
		7/30_80_6	Not Listed
- Almandine-Ferric Aluminum Silicate1302-62-1Not Listed- Respirable Quartz (<10 microns)			
Image: space in the section of the			
Homblende12178-426Not ListedGermany - Water Classification (VwVwS) - Annex 1ID Number 748, not. considered hazardous to water-Iron7439-89.6ID Number 748, not. considered hazardous to water-Feldspars401 Listed1302-62.1Not Listed-Almandine-Ferric Aluminum Silicate1302-62.1Not Listed-Homblende12178-42.6Not ListedGermany - Water Classification (VwVwS) - Annex 2 - Water Hazard Classes7439-89.6Not Listed-Feldspars68476-25.5Not Listed12178-42.6Not Listed-Feldspars14808-60.7Not Listed12178-42.6Not Listed-Feldspars68476-25.5Not Listed12178-42.6Not Listed-Feldspars68476-25.5Not Listed12178-42.6Not Listed-Feldspars68476-25.5Not Listed12178-42.6Not Listed-Feldspars68476-25.5Not Listed12178-42.6Not Listed-Feldspars1202-62.1Not Listed12178-42.6Not Listed-Feldspars68476-25.5Not Listed12178-42.6Not Listed-Feldspars1207-62.1Not Listed12178-42.6Not Listed-Feldspars68476-25.5Not Listed12178-42.6Not Listed-Feldspars1207-62.1Not Listed12178-42.6Not Listed-Feldspars68476-25.5Not Listed12178-42.6Not Listed-Feldspars68476-25.5Not Listed12178-42.6Not Listed-Feldspars </td <td></td> <td></td> <td></td>			
Germany - Water Classification (VwVwS) - Annex 1 ID Number 748, not considered hazardous to water -Iron 7439-896 considered hazardous to water -Peldspars 68476-255 Not Listed -Almandine-Ferric Aluminum Silicate 1302-62-1 Not Listed -Iron 14808-60-7 considered hazardous to water -Hornblende 12178-42-8 Not Listed Germany - Water Classification (VwVwS) - Annex 2 - Water Hazard Classes 7439-89-6 Not Listed -Hornblende 1302-82-1 Not Listed Not Listed -Respirable Quartz (<10 microns)			
Iron7438-89-67438-89-6To Considered hazardous to waterI-feldspars68476-25-5Not ListedI-Almandine-Ferric Aluminum Silicate1302-621Not ListedI-Respirable Quartz (<10 microns)		12178-42-0	NOT LISTED
• Iron7439-89-6considered hazardous to water• Feldspars68476-255Not Listed• Almandine-Ferric Aluminum Silicate12178-42.6Not Listed• Hornblende12178-42.6Not Listed• Germary - Water Classification (/w/wS) - Annex 2 - Water Hazard Classes12178-42.6Not Listed• Iron7439-89.6Not Listed12178-42.6Not Listed• Almandine-Ferric Aluminum Silicate1302-62.1Not Listed12178-42.6Not Listed• Almandine-Ferric Aluminum Silicate1302-62.1Not Listed12178-42.6Not Listed• Almandine-Ferric Aluminum Silicate12178-42.6Not Listed12178-42.6Not Listed• Almandine-Ferric Aluminum Silicate1302-62.1Not Listed12178-42.6Not Listed• Iron• Feldspars68476-25.5Not Listed12178-42.6Not Listed• Iron• Feldspars14808-60.7considered hazardous to waterNot Listed• Iron• Almandine-Ferric Aluminum Silicate1302-62.1Not Listed• Hornblende12178-42.6Not Listed12178-42.6Not Listed </td <td>Germany - Water Classification (VWVWS) - Annex T</td> <td></td> <td>ID Number 749 pet</td>	Germany - Water Classification (VWVWS) - Annex T		ID Number 749 pet
•Almandine-Ferric Aluminum Silicate1302-82.1 ID Number 649, not ID NU ID NUBER <br< td=""><td>•lron</td><td>7439-89-6</td><td>considered hazardous to</td></br<>	•lron	7439-89-6	considered hazardous to
•Almandine-Ferric Aluminum Silicate1302-82.1 ID Number 649, not ID NU ID NUBER <br< td=""><td>•Feldspars</td><td>68476-25-5</td><td>Not Listed</td></br<>	•Feldspars	68476-25-5	Not Listed
•Respirable Quartz (<10 microns)			
•Respirable Quartz (<10 microns)			
Germany - Water Classification (VwVwS) - Annex 2 - Water Hazard Classes- Iron7439-89-6Not Listed- Hondispars68476-25-5Not Listed- Almandine-Ferric Aluminum Silicate1302-82-1Not Listed- Respirable Quartz (<10 microns)	•Respirable Quartz (<10 microns)	14808-60-7	considered hazardous to
tron7439-89-6 FeldsparsNot Listed•Feldspars68476-25-5 Not ListedNot Listed•Almandine-Ferric Aluminum Silicate1302-62-1 14808-60-7Not Listed•Hornblende12178-42-6Not ListedGermany - Water Classification (VwVwS) - Annex 31302-62-1 100Not Listed•Hornblende68476-25-5Not Listed•Hornblende1302-62-1 100Not Listed•Hornblende12178-42-6Not Listed•Hornblende12178-42-6Not Listed•Mandrine-Ferric Aluminum Silicate1302-62-1 100Not Listed•Hornblende12178-42-6Not ListedOtherGermany - Specifically Regulated Chemicals in TRGSNot Listed•Hornblende12178-42-6Not Liste	•Hornblende	12178-42-6	Not Listed
-Feldspars 68476-25-5 Not Listed -Almandine-Ferric Aluminum Silicate 1302-62-1 Not Listed -Respirable Quartz (<10 microns)	Germany - Water Classification (VwVwS) - Annex 2 - Water Hazard Classes		
•Almandime-Ferric Aluminum Silicate1302-62-1Not Listed•Respirable Quartz (<10 microns)	•lron	7439-89-6	Not Listed
-Respirable Quartz (<10 microns)14808-60-7Not Listed+Hornblende12178-42-6Not ListedGermany - Water Classification (/w/wS) - Annex 37433-89-6Not Listed+Iron7433-89-6Not Listed-Feldspars68476-25-5Not Listed-Almandine-Ferric Aluminum Silicate1302-62-1Not Listed-Respirable Quartz (<10 microns)	•Feldspars	68476-25-5	Not Listed
+Homblende12178-42-6Not ListedGermany - Water Classification (VwVwS) - Annex 37439-89-6Not Listed-Iron7439-89-6Not Listed-Feldspars68476-25-5Not Listed-Almandine-Ferric Aluminum Silicate1302-62-1Not Listed-Respirable Quartz (<10 microns)	 Almandine-Ferric Aluminum Silicate 	1302-62-1	Not Listed
+Homblende12178-42-6Not ListedGermany - Water Classification (VwVwS) - Annex 37439-89-6Not Listed-Iron7439-89-6Not Listed-Feldspars68476-25-5Not Listed-Almandine-Ferric Aluminum Silicate1302-62-1Not Listed-Respirable Quartz (<10 microns)	•Respirable Quartz (<10 microns)	14808-60-7	Not Listed
•Tom7439-89-6Not Listed•Feldspars68476-25-5Not Listed•Almandine-Ferric Aluminum Silicate1302-62-1Not Listed•Respirable Quartz (<10 microns)		12178-42-6	Not Listed
•Tom7439-89-6Not Listed•Feldspars68476-25-5Not Listed•Almandine-Ferric Aluminum Silicate1302-62-1Not Listed•Respirable Quartz (<10 microns)	Germany - Water Classification (VwVwS) - Annex 3		
•Amandine-Ferric Aluminum Silicate1302-62-1 ID Number 649, not considered hazardous to water•Respirable Quartz (<10 microns)		7439-89-6	Not Listed
PRespirable Quartz (<10 microns)ID Number 849, not considered hazardous to water+Hornblende12178-42-6Not ListedOtherGermany - Specifically Regulated Chemicals in TRGS•Iron7439-89-6Not Listed•Iron68476-25-5Not Listed•Almandine-Ferric Aluminum Silicate1302-62-1Not Listed•Almandine-Ferric Aluminum Silicate1302-62-1Not Listed•Hornblende12178-42-6Not Listed•Hornblende12178-42-6Not Listed•Hornblende68476-25-5Not Listed•Hornblende12178-42-6Not Listed•Hornblende1302-62-1Not Listed•Hornblende1302-62-1Not Listed•Hornblende1302-62-1Not Listed•Hornblende12178-42-6Not Listed•Hornblende12178-42-6Not Listed•Hornblende12178-42-6Not Listed•Hornblende12178-42-6Not Listed•Hornblende12178-42-6Not Listed•Hornblende12178-42-6Not Listed•Hornblende12178-42-6Not Listed•Hornblende12178-42-6Not Listed•Hornblende1302-62-1Not Listed•Hornblende12178-42-6Not Listed•Hornblende12178-42-6Not Listed•Hornblende12178-42-6Not Listed•Hornblende1302-62-1Not Listed•Hornblende1302-62-1Not Listed•Hornblende1302-62-1Not L	•Feldspars	68476-25-5	Not Listed
•Respirable Quartz (<10 microns)14808-60-7 vaterconsidered hazardous to water•Hornblende12178-42-6Not ListedOther7439-89-6Not Listed•Iron7439-89-6Not Listed•Feldspars66476-25-5Not Listed•Almandine-Ferric Aluminum Silicate1302-62-1Not Listed•Hornblende12178-42-6Not Listed•Hornblende12178-42-6Not Listed•Germany - GUT - Substances Banned from Carpeting14808-60-7Not Listed•Iron7439-89-6Not Listed•Feldspars68476-25-5Not Listed•Amandine-Ferric Aluminum Silicate1302-62-1Not Listed•Iron7439-89-6Not Listed•Feldspars68476-25-5Not Listed•Amandine-Ferric Aluminum Silicate1302-62-1Not Listed•Hornblende12078-42-6Not Listed•Feldspars68476-25-5Not Listed•Almandine-Ferric Aluminum Silicate1302-62-1Not Listed•Hornblende12178-42-6Not Listed•Hornblende12178-42-6Not Listed•Hornblende1302-62-1Not Listed•Hornblende1302-62-1Not Listed•Hornblende12178-42-6Not Listed•Hornblende12178-42-6Not Listed•Hornblende1302-62-1Not Listed•Hornblende12178-42-6Not Listed•Hornblende12178-42-6Not Listed•Hornblende12178-42-6Not Listed <t< td=""><td>•Almandine-Ferric Aluminum Silicate</td><td>1302-62-1</td><td>Not Listed</td></t<>	•Almandine-Ferric Aluminum Silicate	1302-62-1	Not Listed
•Respirable Quartz (<10 microns)14808-60-7 vaterconsidered hazardous to water•Hornblende12178-42-6Not ListedOther7439-89-6Not Listed•Iron7439-89-6Not Listed•Feldspars66476-25-5Not Listed•Almandine-Ferric Aluminum Silicate1302-62-1Not Listed•Hornblende12178-42-6Not Listed•Hornblende12178-42-6Not Listed•Germany - GUT - Substances Banned from Carpeting14808-60-7Not Listed•Iron7439-89-6Not Listed•Feldspars68476-25-5Not Listed•Amandine-Ferric Aluminum Silicate1302-62-1Not Listed•Iron7439-89-6Not Listed•Feldspars68476-25-5Not Listed•Amandine-Ferric Aluminum Silicate1302-62-1Not Listed•Hornblende12078-42-6Not Listed•Feldspars68476-25-5Not Listed•Almandine-Ferric Aluminum Silicate1302-62-1Not Listed•Hornblende12178-42-6Not Listed•Hornblende12178-42-6Not Listed•Hornblende1302-62-1Not Listed•Hornblende1302-62-1Not Listed•Hornblende12178-42-6Not Listed•Hornblende12178-42-6Not Listed•Hornblende1302-62-1Not Listed•Hornblende12178-42-6Not Listed•Hornblende12178-42-6Not Listed•Hornblende12178-42-6Not Listed <t< td=""><td></td><td></td><td>ID Number 849, not</td></t<>			ID Number 849, not
Other Fermany - Specifically Regulated Chemicals in TRGS +iron 7439-89-6 Not Listed +Feldspars 68476-25-5 Not Listed +Respirable Quartz (<10 microns)	•Respirable Quartz (<10 microns)	14808-60-7	considered hazardous to
Germany - Specifically Regulated Chemicals in TRGS+Iron7439-89-6Not Listed+Feldspars68476-25-5Not Listed+Almandine-Ferric Aluminum Silicate1302-62-1Not Listed+Respirable Quartz (<10 microns)	•Hornblende	12178-42-6	Not Listed
Germany - Specifically Regulated Chemicals in TRGS+Iron7439-89-6Not Listed+Feldspars68476-25-5Not Listed+Almandine-Ferric Aluminum Silicate1302-62-1Not Listed+Respirable Quartz (<10 microns)	Other		
•Iron7439-89-6Not Listed•Feldspars68476-25-5Not Listed•Almandine-Ferric Aluminum Silicate1302-62-1Not Listed•Respirable Quartz (<10 microns)			
•Feldspars68476-25-5Not Listed•Almandine-Ferric Aluminum Silicate1302-62-1Not Listed•Respirable Quartz (<10 microns)		7420 00 6	Notlisted
Almandine-Feric Aluminum Silicate1302-62-1Not ListedRespirable Quartz (<10 microns)			
•Respirable Quartz (<10 microns)14808-60-7Not Listed•Hornblende12178-42-6Not ListedGermany - GUT - Substances Banned from Carpeting			
Hornblende12178-42-6Not ListedGermany - GUT - Substances Banned from Carpeting7439-89-6Not ListedIron7439-89-6Not Listed•Feldspars68476-25-5Not Listed•Almandine-Ferric Aluminum Silicate1302-62-1Not Listed•Respirable Quartz (<10 microns)14808-60-7Not Listed•Hornblende12178-42-6Not ListedCreeceItem7439-89-6Not ListedLaborItem7439-89-6Not Listed•Iron7439-89-6Not Listed•Feldspars68476-25-5Not Listed•Almandine-Ferric Aluminum Silicate1302-62-1Not Listed•Respirable Quartz (<10 microns)14808-60-7Not Listed•Hornblende1302-62-1Not Listed•Hornblende12178-42-6Not Listed•Hornblende1302-62-1Not Listed•Hornblende12178-42-6Not Listed•Hornblende1400-7No			
Germany - GUT - Substances Banned from Carpeting•Iron7439-89-6Not Listed•Feldspars68476-25-5Not Listed•Almandine-Ferric Aluminum Silicate1302-62-1Not Listed•Respirable Quartz (<10 microns)			
•Iron7439-89-6Not Listed•Feldspars68476-25-5Not Listed•Almandine-Ferric Aluminum Silicate1302-62-1Not Listed•Respirable Quartz (<10 microns)		121/8-42-6	Not Listed
•Feldspars68476-25-5Not Listed•Almandine-Ferric Aluminum Silicate1302-62-1Not Listed•Respirable Quartz (<10 microns)		7400 00 0	NI - 4 1 1 - 4 - 1
•Almandine-Ferric Aluminum Silicate1302-62-1Not Listed•Respirable Quartz (<10 microns)			
•Respirable Quartz (<10 microns)14808-60-7 14808-60-7Not Listed•Hornblende12178-42-6Not Listed GreeceLaborValue Intervention7439-89-6Not Listed•Iron7439-89-6Not Listed•Feldspars68476-25-5Not Listed•Almandine-Ferric Aluminum Silicate1302-62-1Not Listed•Hornblende1302-62-1Not Listed•Hornblende12178-42-6Not Listed•Hornblende12178-42-6Not Listed•Hornblende12178-42-6Not Listed•Hornblende7439-89-6Not Listed•Hornblende7439-89-6Not Listed•Iron7439-89-6Not Listed•Iron7439-89-6Not Listed•Iron7439-89-6Not Listed•Iron7439-89-6Not Listed•Feldspars7439-89-6Not Listed			
•Hornblende12178-42-6Not ListedGreeceLaborGreece - Substances Prohibited from Use in the Workplace•Iron7439-89-6Not Listed•Feldspars68476-25-5Not Listed•Almandine-Ferric Aluminum Silicate1302-62-1Not Listed•Almandine-Ferric Aluminum Silicate1302-62-1Not Listed•Hornblende12178-42-6Not ListedEnvironmentCreece - Air Quality Guidelines - 1 Hour			
GreeceLaborGreece - Substances Prohibited from Use in the Workplace•Iron7439-89-6Not Listed•Feldspars68476-25-5Not Listed•Almandine-Ferric Aluminum Silicate1302-62-1Not Listed•Almandine-Ferric Aluminum Silicate14808-60-7Not Listed•Hornblende12178-42-6Not ListedEnvironmentGreece - Air Quality Guidelines - 1 Hour7439-89-6Not Listed•Iron7439-89-6Not Listed•Iron7439-89-6Not Listed•Feldspars68476-25-5Not Listed			
LaborGreece - Substances Prohibited from Use in the Workplace•Iron7439-89-6Not Listed•Feldspars68476-25-5Not Listed•Almandine-Ferric Aluminum Silicate1302-62-1Not Listed•Almandine-Ferric Aluminum Silicate14808-60-7Not Listed•Respirable Quartz (<10 microns)	•Hornblende	12178-42-6	NOT LISTED
Greece - Substances Prohibited from Use in the Workplace•Iron7439-89-6Not Listed•Feldspars68476-25-5Not Listed•Almandine-Ferric Aluminum Silicate1302-62-1Not Listed•Respirable Quartz (<10 microns)			
•Iron7439-89-6Not Listed•Feldspars68476-25-5Not Listed•Almandine-Ferric Aluminum Silicate1302-62-1Not Listed•Respirable Quartz (<10 microns)			
•Feldspars68476-25-5Not Listed•Almandine-Ferric Aluminum Silicate1302-62-1Not Listed•Respirable Quartz (<10 microns)	Greece - Substances Prohibited from Use in the Workplace		
•Almandine-Ferric Aluminum Silicate1302-62-1Not Listed•Respirable Quartz (<10 microns)	•lron	7439-89-6	Not Listed
•Respirable Quartz (<10 microns)14808-60-7Not Listed•Hornblende12178-42-6Not ListedEnvironment	•Feldspars	68476-25-5	Not Listed
•Hornblende12178-42-6Not ListedEnvironmentKKGreece - Air Quality Guidelines - 1 Hour7439-89-6Not Listed•Iron7439-89-6Not Listed•Feldspars68476-25-5Not Listed	 Almandine-Ferric Aluminum Silicate 	1302-62-1	Not Listed
EnvironmentGreece - Air Quality Guidelines - 1 Hour•Iron7439-89-6Not Listed•Feldspars68476-25-5Not Listed	 Respirable Quartz (<10 microns) 	14808-60-7	Not Listed
Greece - Air Quality Guidelines - 1 Hour7439-89-6Not Listed•Iron7439-89-6Not Listed•Feldspars68476-25-5Not Listed		12178-42-6	Not Listed
Greece - Air Quality Guidelines - 1 Hour7439-89-6Not Listed•Iron7439-89-6Not Listed•Feldspars68476-25-5Not Listed	Environment		
•Iron7439-89-6Not Listed•Feldspars68476-25-5Not Listed			
•Feldspars 68476-25-5 Not Listed	-		
·			
•Almandine-Ferric Aluminum Silicate 1302-62-1 Not Listed			
	•Almandine-Ferric Aluminum Silicate	1302-62-1	Not Listed

	44000 00 7	
•Respirable Quartz (<10 microns)	14808-60-7	Not Listed
•Hornblende	12178-42-6	Not Listed
Greece - Air Quality Guidelines - 24 Hour	7439-89-6	Not Listed
•lron	68476-25-5	Not Listed
•Feldspars •Almandine-Ferric Aluminum Silicate		
	1302-62-1	Not Listed
•Respirable Quartz (<10 microns)	14808-60-7	Not Listed
•Hornblende	12178-42-6	Not Listed
Greece - Air Quality Guidelines - Annual	7400.00.0	
•lron	7439-89-6	Not Listed
•Feldspars	68476-25-5	Not Listed
•Almandine-Ferric Aluminum Silicate	1302-62-1	Not Listed
•Respirable Quartz (<10 microns)	14808-60-7	Not Listed
•Hornblende	12178-42-6	Not Listed
Greece - Surface Water Quality Standards	7400.00.0	
•lron	7439-89-6	Not Listed
•Feldspars	68476-25-5	Not Listed
•Almandine-Ferric Aluminum Silicate	1302-62-1	Not Listed
•Respirable Quartz (<10 microns)	14808-60-7	Not Listed
•Hornblende	12178-42-6	Not Listed
Greece - Water Quality - Industrial Emission Limit Values (ELVs) - Daily		
		15.0 mg/L ELV (total, lakes); 15.0 mg/L ELV (total, rivers);
•lron	7439-89-6	20.0 mg/L ELV (total, rivers),
		waters)
•Feldspars	68476-25-5	Not Listed
•Almandine-Ferric Aluminum Silicate	1302-62-1	Not Listed
•Respirable Quartz (<10 microns)	14808-60-7	Not Listed
•Hornblende	12178-42-6	Not Listed
Greece - Water Quality - Industrial Emission Limit Values (ELVs) - Monthly	12110-42-0	Not Elsted
		7.5 mg/L ELV (total, lakes);
•lron	7439-89-6	7.5 mg/L ELV (total, rivers);
1011	7439-09-0	10.0 mg/L ELV (total, coastal
		waters)
•Feldspars	68476-25-5	Not Listed
 Almandine-Ferric Aluminum Silicate 	1302-62-1	Not Listed
•Respirable Quartz (<10 microns)	14808-60-7	Not Listed
•Hornblende	12178-42-6	Not Listed
Other		
Greece - Major Accidents - Threshold Quantities for Accident Prevention		
•lron	7439-89-6	Not Listed
•Feldspars	68476-25-5	Not Listed
•Almandine-Ferric Aluminum Silicate	1302-62-1	Not Listed
•Respirable Quartz (<10 microns)	14808-60-7	Not Listed
•Hornblende	12178-42-6	Not Listed
Greece - Major Accidents - Threshold Quantities for Safety Reporting	12170-42-0	Not Listed
•lron	7439-89-6	Not Listed
•Feldspars	68476-25-5	Not Listed
•Almandine-Ferric Aluminum Silicate	1302-62-1	Not Listed
•Respirable Quartz (<10 microns)	14808-60-7	Not Listed
•Hornblende	12178-42-6	Not Listed
Greece - Marketing and Use Restrictions - Azodyes	12170-42-0	Not Listed
•lron	7439-89-6	Not Listed
•Feldspars	68476-25-5	Not Listed
•Almandine-Ferric Aluminum Silicate	1302-62-1	Not Listed
•Respirable Quartz (<10 microns)	14808-60-7	Not Listed
•Hornblende	12178-42-6	Not Listed
	12110-42-0	Not Elsted
Indonesia		
Environment		
Indonesia - Hazardous Waste from Non-Specific Sources		
	7420 00 6	Not Listed
•lron	7439-89-6	Not Listed
•Feldspars	68476-25-5	Not Listed

•Almandine-Ferric Aluminum Silicate	1302-62-1	Not Listed
•Respirable Quartz (<10 microns)	14808-60-7	Not Listed
•Hornblende	12178-42-6	Not Listed
Indonesia - Hazardous Waste from Specific Sources		
•lron	7439-89-6	Not Listed
•Feldspars	68476-25-5	Not Listed
 Almandine-Ferric Aluminum Silicate 	1302-62-1	Not Listed
•Respirable Quartz (<10 microns)	14808-60-7	Not Listed
•Hornblende	12178-42-6	Not Listed
Indonesia - Hazardous Waste from Overdue Chemicals		
•lron	7439-89-6	Not Listed
•Feldspars	68476-25-5	Not Listed
 Almandine-Ferric Aluminum Silicate 	1302-62-1	Not Listed
•Respirable Quartz (<10 microns)	14808-60-7	Not Listed
•Hornblende	12178-42-6	Not Listed
Japan		

. Labor

Japan - ISHL Dangerous Substances		
•lron	7439-89-6	Not Listed
•Feldspars	68476-25-5	Not Listed
 Almandine-Ferric Aluminum Silicate 	1302-62-1	Not Listed
 Respirable Quartz (<10 microns) 	14808-60-7	Not Listed
•Hornblende	12178-42-6	Not Listed
Japan - ISHL Designated Carcinogens		
•lron	7439-89-6	Not Listed
•Feldspars	68476-25-5	Not Listed
 Almandine-Ferric Aluminum Silicate 	1302-62-1	Not Listed
 Respirable Quartz (<10 microns) 	14808-60-7	Not Listed
•Hornblende	12178-42-6	Not Listed

Other

Japan - Drinking Water Quality Standards - Supplied Water Quality Standard Values

•lron	7439-89-6	0.3 mg/L (listed under Iron and its compounds)
•Feldspars	68476-25-5	Not Listed
•Almandine-Ferric Aluminum Silicate	1302-62-1	Not Listed
•Respirable Quartz (<10 microns)	14808-60-7	Not Listed
•Hornblende	12178-42-6	Not Listed
Japan - Drinking Water Quality Standards - Quality Control Guideline Values		
•lron	7439-89-6	Not Listed
•Feldspars	68476-25-5	Not Listed
 Almandine-Ferric Aluminum Silicate 	1302-62-1	Not Listed
•Respirable Quartz (<10 microns)	14808-60-7	Not Listed
•Hornblende	12178-42-6	Not Listed
Japan - Fire Service Law - Hazardous Materials		
		Group 2 - Flammable solids
•lron	7439-89-6	III (powder, listed under Iron powder)
•Feldspars	68476-25-5	Not Listed
 Almandine-Ferric Aluminum Silicate 	1302-62-1	Not Listed
•Respirable Quartz (<10 microns)	14808-60-7	Not Listed
•Hornblende	12178-42-6	Not Listed

Korea

Labor

Korea - ISHA - Harmful Substances Prohibited for Manufacturing, Importing, Transferring, or Supplying 7439-89-6 Not Listed •Iron •Feldspars 68476-25-5 Not Listed •Almandine-Ferric Aluminum Silicate 1302-62-1 Not Listed •Respirable Quartz (<10 microns) 14808-60-7 Not Listed •Hornblende 12178-42-6 Not Listed Korea - ISHA - Harmful Substances Requiring Permission

•lron	7439-89-6	Not Listed
•Feldspars	68476-25-5	Not Listed
•Almandine-Ferric Aluminum Silicate	1302-62-1	Not Listed
•Respirable Quartz (<10 microns)	14808-60-7	
•Hornblende	12178-42-6	Not Listed
Korea - ISHA - Name, Toxicity and Protective Measures of New Chemical Substanc		No.41 Sector of
•lron	7439-89-6	Not Listed
•Feldspars •Almandine-Ferric Aluminum Silicate	68476-25-5	Not Listed
	1302-62-1	Not Listed
•Respirable Quartz (<10 microns) •Hornblende	14808-60-7 12178-42-6	
	12170-42-0	NOT LISTED
Environment		
Korea - MOE - Toxic Chemicals Control Act (TCCA) - Observational Chemicals		
•lron	7439-89-6	Not Listed
•Feldspars	68476-25-5	Not Listed
Almandine-Ferric Aluminum Silicate	1302-62-1	Not Listed
•Respirable Quartz (<10 microns)	14808-60-7	Not Listed
•Hornblende	12178-42-6	Not Listed
Other		
Korea - MOE - Toxic Chemicals Control Act (TCCA) - Prohibited Chemicals		
	7400 00 0	No.41 Sector of
•lron	7439-89-6	Not Listed
•Feldspars •Almandine-Ferric Aluminum Silicate	68476-25-5 1302-62-1	Not Listed Not Listed
•Respirable Quartz (<10 microns) •Hornblende	14808-60-7 12178-42-6	Not Listed
Korea - MOE - Toxic Chemicals Control Act (TCCA) - Restricted Chemicals	12170-42-0	NOT LISTED
•/ron	7439-89-6	Not Listed
•Feldspars	68476-25-5	Not Listed
•Almandine-Ferric Aluminum Silicate	1302-62-1	Not Listed
•Respirable Quartz (<10 microns)	14808-60-7	Not Listed
•Hornblende	12178-42-6	Not Listed
Korea - MOE - Toxic Chemicals Control Act (TCCA) - Toxic Chemicals		
•lron	7439-89-6	Not Listed
•Feldspars	68476-25-5	Not Listed
•Almandine-Ferric Aluminum Silicate	1302-62-1	Not Listed
•Respirable Quartz (<10 microns)	14808-60-7	Not Listed
•Hornblende	12178-42-6	Not Listed
Mexico		
Environment		
Mexico - Ecological Criteria for Water Quality - Agricultural Irrigation		
•lron	7439-89-6	5.0 mg/L
•Feldspars	68476-25-5	Not Listed
•Almandine-Ferric Aluminum Silicate	1302-62-1	Not Listed
•Respirable Quartz (<10 microns)	14808-60-7	Not Listed
•Hornblende	12178-42-6	Not Listed
Mexico - Ecological Criteria for Water Quality - Drinking Water Supply Source		
•lron	7439-89-6	0.3 mg/L
•Feldspars	68476-25-5	Not Listed
•Almandine-Ferric Aluminum Silicate	1302-62-1	Not Listed
•Respirable Quartz (<10 microns)	14808-60-7	Not Listed
•Hornblende	12178-42-6	Not Listed
Mexico - Ecological Criteria for Water Quality - Protection of Fresh Water Aquatic L •Iron	- ite 7439-89-6	1.0 mg/L
•Feldspars	68476-25-5	Not Listed
•Almandine-Ferric Aluminum Silicate	1302-62-1	Not Listed
•Respirable Quartz (<10 microns)	14808-60-7	Not Listed
•Hornblende	12178-42-6	Not Listed
Mexico - Ecological Criteria for Water Quality - Protection of Marine Water Aquatic		NOT LISTED
•lron	7439-89-6	0.05 mg/L
•Feldspars	68476-25-5	Not Listed

 Almandine-Ferric Aluminum Silicate 	1302-62-1	Not Listed
•Respirable Quartz (<10 microns)	14808-60-7	Not Listed
•Hornblende	12178-42-6	Not Listed
Netherlands		
Other		
Netherlands - List of Carcinogens		
•Iron	7420 90 6	Not Listed
•Feldspars	7439-89-6 68476-25-5	Not Listed
•Almandine-Ferric Aluminum Silicate	1302-62-1	Not Listed
•Respirable Quartz (<10 microns) •Hornblende	14808-60-7	(respirable dust, crystalline) Not Listed
Netherlands - Major Accidents - Qualifying Quantities for Accident Prevention	12178-42-6	NOT LISTED
•lron	7439-89-6	Not Listed
•Feldspars	68476-25-5	Not Listed
•Almandine-Ferric Aluminum Silicate	1302-62-1	Not Listed
•Respirable Quartz (<10 microns)	14808-60-7	Not Listed
•Hornblende	12178-42-6	Not Listed
Netherlands - Major Accidents - Qualifying Quantities for Safety Reporting	12110 120	Hot Llotod
•lron	7439-89-6	Not Listed
•Feldspars	68476-25-5	Not Listed
•Almandine-Ferric Aluminum Silicate	1302-62-1	Not Listed
•Respirable Quartz (<10 microns)	14808-60-7	Not Listed
•Hornblende	12178-42-6	Not Listed
New Zealand		
Other		
New Zealand - Ozone Depleting Substances		
•lron	7439-89-6	Not Listed
•Feldspars	68476-25-5	Not Listed
•Almandine-Ferric Aluminum Silicate	1302-62-1	Not Listed
•Respirable Quartz (<10 microns)	14808-60-7	Not Listed
•Hornblende	12178-42-6	Not Listed
Norway		
-		
Environment		
Norway - Restricted Substances and Preparations		
•lron	7439-89-6	Not Listed
•Feldspars	68476-25-5	Not Listed
Almandine-Ferric Aluminum Silicate	1302-62-1	Not Listed
•Respirable Quartz (<10 microns)	14808-60-7	Not Listed
•Hornblende	12178-42-6	Not Listed
Russia		
Labor		
Russia - Limiting Quantities of Hazardous Substances		
•lron	7439-89-6	Not Listed
•Feldspars	68476-25-5	Not Listed
•Almandine-Ferric Aluminum Silicate	1302-62-1	Not Listed
•Respirable Quartz (<10 microns)	14808-60-7	Not Listed
•Hornblende	12178-42-6	Not Listed
Slovak Republic		
Labor		
Slovak Republic - Selected Chemical Agents and Usages Which are Not Permitted	7400.00.0	
•lron	7439-89-6	Not Listed
•Feldspars	68476-25-5	Not Listed
•Almandine-Ferric Aluminum Silicate	1302-62-1	Not Listed
•Respirable Quartz (<10 microns)	14808-60-7	Not Listed
•Hornblende	12178-42-6	Not Listed

Environment

Olevels Denviklie - Weste Denviktiene - List of Hermful Ouksteinese		
Slovak Republic - Waste Regulations - List of Harmful Substances	7400 00 0	NI (11) (1
•lron	7439-89-6	Not Listed
•Feldspars •Almandine-Ferric Aluminum Silicate	68476-25-5 1302-62-1	Not Listed Not Listed
•Respirable Quartz (<10 microns)	14808-60-7	Not Listed
•Hornblende	12178-42-6	Not Listed
Taiwan	12110 42 0	Not Elotod
Environment		
Taiwan - Effluent Standards - Maximum Effluent Limitations	7400 00 0	NI (11) (1
•lron	7439-89-6	Not Listed
•Feldspars	68476-25-5	Not Listed
•Almandine-Ferric Aluminum Silicate	1302-62-1 14808-60-7	Not Listed Not Listed
•Respirable Quartz (<10 microns) •Hornblende	12178-42-6	Not Listed
Taiwan - Toxic Chemical Substances Control Act - Threshold Regulated Quantities	12170-42-0	NOL LISLEU
•/ron	7439-89-6	Not Listed
•Feldspars	68476-25-5	Not Listed
•Almandine-Ferric Aluminum Silicate	1302-62-1	Not Listed
•Respirable Quartz (<10 microns)	14808-60-7	Not Listed
•Hornblende	12178-42-6	Not Listed
Taiwan - Toxic Chemical Substances Control Act - Classification and Control Level	s	
•lron	7439-89-6	Not Listed
•Feldspars	68476-25-5	Not Listed
•Almandine-Ferric Aluminum Silicate	1302-62-1	Not Listed
•Respirable Quartz (<10 microns)	14808-60-7	Not Listed
•Hornblende	12178-42-6	Not Listed
United Kingdom		
-		
Environment		
United Kingdom - Pollution Inventory - Schedule 1 - Thresholds for Releases to Air		
•lron	7439-89-6	Not Listed
•Feldspars	68476-25-5	Not Listed
•Almandine-Ferric Aluminum Silicate	1302-62-1	Not Listed
•Respirable Quartz (<10 microns)	14808-60-7	Not Listed
•Hornblende	12178-42-6	Not Listed
Other		
United Kingdom - Major Accidents - International Toxic Equivalent Factors (ITEF)		
•lron	7439-89-6	Not Listed
•Feldspars	68476-25-5	Not Listed
 Almandine-Ferric Aluminum Silicate 	1302-62-1	Not Listed
•Respirable Quartz (<10 microns)	14808-60-7	Not Listed
•Hornblende	12178-42-6	Not Listed
United Kingdom - Major Accidents - Qualifying Quantities for Accident Prevention		
•lron	7439-89-6	Not Listed
•Feldspars	68476-25-5	Not Listed
•Almandine-Ferric Aluminum Silicate	1302-62-1	Not Listed
•Respirable Quartz (<10 microns)	14808-60-7	Not Listed
•Hornblende	12178-42-6	Not Listed
United Kingdom - Major Accidents - Qualifying Quantities for Safety Reporting •Iron	7439-89-6	Not Listed
•Feldspars	68476-25-5	Not Listed
•Almandine-Ferric Aluminum Silicate	1302-62-1	Not Listed
•Respirable Quartz (<10 microns)	14808-60-7	Not Listed
•Hornblende	12178-42-6	Not Listed
United States		
Labor		
U.S OSHA - Process Safety Management - Highly Hazardous Chemicals	7400 00 0	NI. A L L L L
•lron •Feldenare	7439-89-6	Not Listed

7439-89-6	Not Listed
68476-25-5	Not Listed

•Almandine-Ferric Aluminum Silicate	1302-62-1	Not Listed
•Respirable Quartz (<10 microns)	14808-60-7	Not Listed
•Hornblende	12178-42-6	Not Listed
U.S OSHA - Specifically Regulated Chemicals	12110 42 0	Not Elotod
•lron	7439-89-6	Not Listed
	68476-25-5	Not Listed
•Feldspars		
•Almandine-Ferric Aluminum Silicate	1302-62-1	Not Listed
•Respirable Quartz (<10 microns)	14808-60-7	
•Hornblende	12178-42-6	Not Listed
Environment		
U.S CAA (Clean Air Act) - 1990 Hazardous Air Pollutants		
•lron	7439-89-6	Not Listed
•Feldspars	68476-25-5	Not Listed
 Almandine-Ferric Aluminum Silicate 	1302-62-1	Not Listed
•Respirable Quartz (<10 microns)	14808-60-7	Not Listed
•Hornblende	12178-42-6	Not Listed
U.S CERCLA/SARA - Hazardous Substances and their Reportable Quantities		
•lron	7439-89-6	Not Listed
•Feldspars	68476-25-5	Not Listed
•Almandine-Ferric Aluminum Silicate	1302-62-1	Not Listed
•Respirable Quartz (<10 microns)	14808-60-7	Not Listed
•Hornblende	12178-42-6	Not Listed
U.S CERCLA/SARA - Radionuclides and Their Reportable Quantities		
•lron	7439-89-6	Not Listed
•Feldspars	68476-25-5	Not Listed
 Almandine-Ferric Aluminum Silicate 	1302-62-1	Not Listed
•Respirable Quartz (<10 microns)	14808-60-7	Not Listed
•Hornblende	12178-42-6	Not Listed
U.S CERCLA/SARA - Section 302 Extremely Hazardous Substances EPCRA RQs		
•lron	7439-89-6	Not Listed
•Feldspars	68476-25-5	Not Listed
•Almandine-Ferric Aluminum Silicate	1302-62-1	Not Listed
•Respirable Quartz (<10 microns)	14808-60-7	Not Listed
•Hornblende	12178-42-6	Not Listed
U.S CERCLA/SARA - Section 302 Extremely Hazardous Substances TPQs		
•lron	7439-89-6	Not Listed
•Feldspars	68476-25-5	Not Listed
•Almandine-Ferric Aluminum Silicate	1302-62-1	Not Listed
	14808-60-7	Not Listed
•Respirable Quartz (<10 microns)		
•Hornblende	12178-42-6	Not Listed
U.S CERCLA/SARA - Section 313 - Emission Reporting	7420 00 6	Notlistad
•lron	7439-89-6	Not Listed
•Feldspars	68476-25-5	Not Listed
•Almandine-Ferric Aluminum Silicate	1302-62-1	Not Listed
•Respirable Quartz (<10 microns)	14808-60-7	Not Listed
•Hornblende	12178-42-6	Not Listed
U.S CERCLA/SARA - Section 313 - PBT Chemical Listing		
•lron	7439-89-6	Not Listed
•Feldspars	68476-25-5	Not Listed
 Almandine-Ferric Aluminum Silicate 	1302-62-1	Not Listed
•Respirable Quartz (<10 microns)	14808-60-7	Not Listed
•Hornblende	12178-42-6	Not Listed
United States - California		
Environment		
U.S California - Proposition 65 - Carcinogens List		
•lron	7439-89-6	Not Listed
•Feldspars	68476-25-5	Not Listed
•Almandine-Ferric Aluminum Silicate	1302-62-1	Not Listed
	44000 00 -	carcinogen, initial date
•Respirable Quartz (<10 microns)	14808-60-7	10/1/88 (airborne particles of
		respirable size)

•Hornblende	12178-42-6	Not Listed
U.S California - Proposition 65 - Developmental Toxicity		
•lron	7439-89-6	Not Listed
•Feldspars	68476-25-5	Not Listed
 Almandine-Ferric Aluminum Silicate 	1302-62-1	Not Listed
 Respirable Quartz (<10 microns) 	14808-60-7	Not Listed
•Hornblende	12178-42-6	Not Listed
U.S California - Proposition 65 - Maximum Allowable Dose Levels (MADL)		
•lron	7439-89-6	Not Listed
•Feldspars	68476-25-5	Not Listed
 Almandine-Ferric Aluminum Silicate 	1302-62-1	Not Listed
 Respirable Quartz (<10 microns) 	14808-60-7	Not Listed
•Hornblende	12178-42-6	Not Listed
U.S California - Proposition 65 - No Significant Risk Levels (NSRL)		
•lron	7439-89-6	Not Listed
•Feldspars	68476-25-5	Not Listed
 Almandine-Ferric Aluminum Silicate 	1302-62-1	Not Listed
•Respirable Quartz (<10 microns)	14808-60-7	Not Listed
•Hornblende	12178-42-6	Not Listed
U.S California - Proposition 65 - Reproductive Toxicity - Female		
•lron	7439-89-6	Not Listed
•Feldspars	68476-25-5	Not Listed
 Almandine-Ferric Aluminum Silicate 	1302-62-1	Not Listed
•Respirable Quartz (<10 microns)	14808-60-7	Not Listed
•Hornblende	12178-42-6	Not Listed
U.S California - Proposition 65 - Reproductive Toxicity - Male		
•lron	7439-89-6	Not Listed
•Feldspars	68476-25-5	Not Listed
 Almandine-Ferric Aluminum Silicate 	1302-62-1	Not Listed
•Respirable Quartz (<10 microns)	14808-60-7	Not Listed
•Hornblende	12178-42-6	Not Listed

15.2 Chemical Safety Assessment

• No Chemical Safety Assessment has been carried out.

15.3 Other Information

• WARNING: This product contains a chemical known to the State of California to cause cancer.

Section 16 - Other Information

Relevant Phrases (code & full text)

	 H335 - May cause respiratory irritation H302 - Harmful if swallowed H372 - Causes damage to organs through prolonged or repeated exposure. H373 - May cause damage to organs through prolonged or repeated exposure.
	R22 - Harmful if swallowed. R37 - Irritating to respiratory system. R48/20 - Harmful: danger of serious damage to health by prolonged exposure through inhalation.
Revision Date	• 07/September/2016
Last Revision Date	• 26/August/2016
Preparation Date	• 19/August/2014
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Key to abbreviations NDA = No Data Available