



Safety Data Sheet

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

1.1 Product identifier	
Product Name	• Garnet Abrasives – SJ16, SJ30x60, SJ36, SJ50, SJ60, SJ80 & SJ120
Synonyms	Almandine and Pyrope Garnet
1.2 Relevant identified	uses of the substance or mixture and uses advised against
Relevant identified use(s)	 Industrial Abrasives, Blast Cleaning Abrasives
1.3 Details of the supp	lier of the safety data sheet
Manufacturer	 Abrasive Products & Equipment- Sharpjet Division
Tolophone (Conoral	6319 Brookhill Drive Houston, TX 77087 United States www.APEabrasives.com sharpjet@apec-lp.com
Telephone (General	
Telephone (General	
1.4 Emergency telepho	one number
Manufacturer	• (713) 797-0054

Section 2: Hazards Identification

EU/EEC

According to Regulation (EC) No 1272/2008 (CLP)/REACH 1907/2006 [amended by 453/2010] According to EU Directive 67/548/EEC (DSD) or 1999/45/EC (DPD)

2.1 Classification of the substance or mixture

CLP • Not classified

• 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	Carcinogenicity 1A - H350
2.2 Label elements	
OSHA HCS 2012	
	DANGER



Hazard statements •	May cause cancer H350
Precautionary statements	
Prevention •	Obtain special instructions before use P201 Do not handle until all safety precautions have been read and understood P202 Wear protective gloves/protective clothing/eye protection/face protection P280
Response •	IF exposed or concerned: Get medical advice/attention P308+P313
Storage/Disposal •	Store locked up P405 Dispose of content and/or container in accordance with local, regional, national, and/or international regulations P501
2.3 Other hazards	
OSHA HCS 2012 •	Under United States Regulations (29 CFR 1910.1200 - Hazard Communication Standard), this product is considered hazardous.

Canada According to WHMIS

2.1 Classification of the substance or mixture

WHMIS • Other Toxic Effects - D2A

2.2 Label elements

WHMIS



• Other Toxic Effects - D2A

2.3 Other hazards

WHMIS • In Canada, the product mentioned above is 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 DSD/DPD: Not Classified EU CLP: Not Classified OSHA HCS 2012: Not Classified	NDA
Quartz	CAS:14808-60- 7 EC Number:238- 878-4	< 0.65%	NDA	EU DSD/DPD: Self Classified: T; R48/20 EU CLP: Self Classified: STOT RE 1, H372 OSHA HCS 2012: Carc. 1A; STOT RE 1 (Lungs, Inhl)	
Iron	CAS :7439-89-6 EC Number :231- 096-4	0.01% TO 0.2%	Ingestion/Oral-Rat LD50 • 750 mg/kg	EU DSD/DPD: Self Classified: Xn R22 Xi, R37 Xn R48/20 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)	NDA
Hornblende	CAS: 12178-42- 6	0.01% TO 0.2%	NDA	EU DSD/DPD: Not ClassifiedEU CLP: Not ClassifiedOSHA HCS 2012: Not Classified	
Feldspars	CAS:68476-25- 5 EC Number:270- 666-7	0.01% TO 0.2%	NDA	EU DSD/DPD: Not Classified EU CLP: Not Classified ND/ OSHA HCS 2012: Not Classified	

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 in	nportant symptoms and effects, both acute and delayed
	 Refer to Section 11 - Toxicological Information.
4.3 Indicat	ion 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 5.3 Advice for firefighters

- No data available.
 - 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)
- As an immediate precautionary measure, isolate spill or leak area for at least 25 meters (75 feet) in all directions.

6.2 Environmental precautions

• Avoid run off to waterways and sewers.

6.3 Methods and material for containment and cleaning up

Containment/Clean-up• Avoid generating dust.MeasuresSweep or vacuum up material for disposal or recovery.

6.4 Reference to other sections

• Refer to Section 8 - Exposure Controls/Personal Protection and Section 13 - Disposal 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	Argentina	Austria	Belgium	Chile
	TWAs	0.025 mg/m3 TWA (respirable fraction)	0.05 mg/m3 TWA [CMP] (respirable fraction)		0.1 mg/m3 TWA (alveolar dust)	0.08 mg/m3 TWA LPP (respirable fraction)
Quartz (14808-60-7)	MAKs	Not established	Not established	0.15 mg/m3 TWA [TMW] (yearly average, valid till 12/31/2013, alveolar dust, respirable fraction)	Not established	Not established
Exposure Limits/Guidelines (Con't.)						
	Result	China	Czech Republic	Denmark	Finland	France
Quartz (14808-60-7)	STELs	2 mg/m3 STEL (10%-50% free SiO2,	Not established	Not established	Not established	Not established

					Amorphous and crystalline silicon dioxide)	
		E	cposure Limits/Gu	idelines (Con't.)		
	Result	Spain	Sweden	Switzerland	United Kingdom	Venezuela
	MAKs	Not established	Not established	0.15 mg/m3 TWA [MAK] (respirable)	Not established	Not established
S	STELs	Not established	Not established	Not established	0.3 mg/m3 STEL (calculated, respirable)	Not established
(14808-60-7)	TWAs	0.1 mg/m3 TWA [VLA-ED] (reclassified IARC group 2A to group 1, respirable fraction)	0.1 mg/m3 LLV (respirable dust)	Not established		0.05 mg/m3 TWA [CAP

Exposure Control Notations

Switzerland

•Quartz (14808-60-7): Carcinogens: (Category C1 carcinogen) | Developmental Risk Groups: (Developmental Risk Group C (listed under Silicon dioxide, crystalline))

Norway

•Quartz (14808-60-7): Carcinogens: (Carcinogen)

Argentina

•Quartz (14808-60-7): Carcinogens: (A2 - Suspected human carcinogen)

Venezuela

•Quartz (14808-60-7): Ceilings: (A2 - Alleged Carcinogen in Humans)

Germany DFG

•Quartz (14808-60-7): Carcinogens: (Category 1 (causes cancer in man, alveola fraction))

Exposure Limits Supplemental Spain

•Quartz (14808-60-7): Under Review: (0.05 mg/m3 VLA-ED; reclassified by IARC from group 2A possible human carcinogen to group 1 human carcinogen; (respirable fraction))

8.2 Exposure controls

Engineering Measures/Controls	• Good general ventilation should be used. Ventilation rates should be matched to conditions. 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.
Personal Protective E	quipment
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

ACCIL _ American	Conference of Governmental Industrial
ACGIH = Hygiene	

- $\label{eq:LLV} LLV \qquad = \frac{\text{Limit Level Value is the exposure limit for 8-hour work}}{\text{day}}$
- MAK = Maximale Arbeitsplatz Konzentration is the maximum permissible concentration
- MAC = Maximum Allowable Concentration

NIOSH = National Institute of Occupational Safety and Health

OSHA = Occupational Safety and Health Administration

- PEL = Permissible Exposure Level determined by the Occupational Safety and Health Administration (OSHA)
- STEL = Short Term Exposure Limits are based on 15-minute exposures
- STEV = Short Term Exposure Value
- TLV = Threshold Limit Value determined by the American Conference of Governmental Industrial Hygienists (ACGIH)
- TWA = Time-Weighted Averages are based on 8h/day, 40h/week exposures

Section 9 - Physical and Chemical Properties

9.1 Information on Physical and Chemical Properties

Material Description

waterial 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	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				
Iron (0.01% TO 0.2%)	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			
Quartz (< 0.65%)	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
Acute toxicity	EU/CLP•Data lacking OSHA HCS 2012•Data lacking
Aspiration Hazard	EU/CLP•Data lacking OSHA HCS 2012•Data lacking
Carcinogenicity	EU/CLP•Data lacking OSHA HCS 2012•Carcinogenicity 1A
Germ Cell Mutagenicity	EU/CLP•Data lacking OSHA HCS 2012•Data lacking
Skin corrosion/Irritation	EU/CLP•Data lacking OSHA HCS 2012•Data lacking
Skin sensitization	EU/CLP•Data lacking OSHA HCS 2012•Data lacking
STOT-RE	EU/CLP•Data lacking OSHA HCS 2012•Data lacking
STOT-SE	EU/CLP•Data lacking OSHA HCS 2012•Data lacking
Toxicity for Reproduction	EU/CLP•Data lacking OSHA HCS 2012•Data lacking
Respiratory sensitization	EU/CLP•Data lacking OSHA HCS 2012•Data lacking
Serious eye damage/Irritation	EU/CLP•Data lacking OSHA HCS 2012•Data lacking

Potential Health Effects

Inhalation	
Acute (Immediate)	Exposure to dust may cause irritation.
Chronic (Delayed)	 Inhalation of respirable dusts containing crystalline silica may cause lung injury or disease including silicosis and/or cancer.
Skin	
Acute (Immediate)	May cause abrasions.
Chronic (Delayed)	No data available
Eye	
Acute (Immediate)	Exposure to dust may cause irritation.
Chronic (Delayed)	No data available
Ingestion	
Acute (Immediate)	 No known effects, however ingestion not recommended.
Chronic (Delayed)	No data available
Carcinogenic Effects	 May cause cancer. This product contains crystalline silica as cristobalite and/or quartz. IARC Monographs on Evaluation of Carcinogenic Risk of Chemicals to Humans (Monograph 68, 1997) concludes that there is sufficient evidence for the carcinogenicity of crystalline silica to humans (IARC Group I). Crystalline Silica is classified as a Known Carcinogen according to NTP.
	Carcinogenic Effects

Carcinogenic Effects						
CAS IARC NTP						
Quartz	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

• Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

Packaging 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	14.3 Transport hazard class(es)	14.4 Packing group	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 73/78 and the IBC Code • Data lacking.

Section 15 - Regulatory Information

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

SARA Hazard Classifications

Chronic

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				Inventor	у				
Component	CAS	Canada	DSL	Canada NDSL	China		EU EIN	NECS	EU ELNICS
Almandine-Ferric Aluminum Silicate	1302-62-	-1 No		No	No		No		No
Feldspars	68476-29 5	⁵⁻ No		Yes	Yes		Yes		No
Hornblende	12178-42 6	²⁻ No		No	No		No		No
Iron	7439-89-	-6 Yes		No	Yes		Yes		No
Quartz	14808-60 7	^{D-} Yes		No	Yes		Yes		No
				Inventory (C	on't.)				
Componer	nt	CAS		Korea KECL	Nev	v Zeal	and		TSCA
Almandine-Ferric Aluminum Silicate		1302-62-1	No		Yes			No	
Feldspars		68476-25-5	Yes		Yes		Yes		
Hornblende		12178-42-6	No		No		No		
Iron		7439-89-6	Yes		Yes	Yes		Yes	
Quartz		14808-60-7	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
•Quartz	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
•Quartz	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
•Quartz	14808-60-7	D2A (In certain cases, this classification does not apply. For more information, consult the section 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
•Quartz	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
•Quartz	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
•Quartz	14808-60-7	Not Listed
•Hornblende	12178-42-6	Not Listed
China - Ozone Depleting Substances - Second Schedu •Iron	7439-89-6	Not Listed
•Feldspars	68476-25-5	Not Listed
Almandine-Ferric Aluminum Silicate	1302-62-1	Not Listed
•Quartz	14808-60-7	Not Listed
•Hornblende	12178-42-6	Not Listed
China - Ozone Depleting Substances - Third Schedule		Not Elsted
•Iron	7439-89-6	Not Listed
•Feldspars	68476-25-5	Not Listed
•Almandine-Ferric Aluminum Silicate	1302-62-1	Not Listed
•Quartz	14808-60-7	Not Listed
•Hornblende	12178-42-6	Not Listed
Other		
Other China - Annex I & II - Controlled Chemicals Lists		
• ron	7439-89-6	Not Listed
•Feldspars	68476-25-5	Not Listed
	00110200	

Almandine-Ferric Aluminum Silicate	1302-62-1	Not Listed
•Quartz	14808-60-7	Not Listed
•Hornblende	12178-42-6	Not Listed
China - Catalog of Hypertoxic Chemicals	12170 42 0	NOT LISTOU
•Iron	7439-89-6	Not Listed
•Feldspars	68476-25-5	Not Listed
•Almandine-Ferric Aluminum Silicate	1302-62-1	Not Listed
•Quartz	14808-60-7	Not Listed
•Hornblende	12178-42-6	Not Listed
China - Dangerous Goods List		
•lron	7439-89-6	Not Listed
•Feldspars	68476-25-5	Not Listed
 Almandine-Ferric Aluminum Silicate 	1302-62-1	Not Listed
•Quartz	14808-60-7	Not Listed
•Hornblende	12178-42-6	Not Listed
China - Export Control List - Part I Chemicals		
•lron	7439-89-6	Not Listed
•Feldspars	68476-25-5	Not Listed
Almandine-Ferric Aluminum Silicate	1302-62-1	Not Listed
•Quartz	14808-60-7	Not Listed
•Hornblende	12178-42-6	Not Listed
	12170 42 0	NOT LISTOU
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
•Quartz	14808-60-7	Not Listed
•Hornblende	12178-42-6	Not Listed
Denmark - List of Undesirable Substances - Product Groups/Function	12170-42-0	NOT LISTED
•Iron	7439-89-6	Not Listed
		Not Listed
•Feldspars	68476-25-5	
Almandine-Ferric Aluminum Silicate	1302-62-1	Not Listed
•Quartz	14808-60-7	Not Listed
•Hornblende	12178-42-6	Not Listed
Denmark - List of Undesirable Substances - Reason for Selection	7400.00.0	
•lron	7439-89-6	Not Listed
•Feldspars	68476-25-5	Not Listed
Almandine-Ferric Aluminum Silicate	1302-62-1	Not Listed
•Quartz	14808-60-7	Not Listed
•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
•Quartz	14808-60-7	Not Listed
•Hornblende	12178-42-6	Not Listed
EU - Substances Depleting the Ozone layer (1005/2009) - Annex I Substances		
•Iron	7439-89-6	Not Listed
•Feldspars	68476-25-5	Not Listed
•Almandine-Ferric Aluminum Silicate	1302-62-1	Not Listed
•Quartz	14808-60-7	Not Listed
•Hornblende	12178-42-6	Not Listed
Other Ell Expert and Import Protrictions (690/2009) Chemicals and Articles Subject to	Export Don	
EU - Export and Import Restrictions (689/2008) - Chemicals and Articles Subject to	-	Not Lists J
•Iron •Feldenare	7439-89-6 68476-25-5	Not Listed

•Feldspars

68476-25-5

Not Listed

 Almandine-Ferric Aluminum Silicate 	1302-62-1	Not Listed
•Quartz	14808-60-7	Not Listed
•Hornblende	12178-42-6	Not Listed
EU - Export and Import Restrictions (689/2008) - Chemicals Qualifying for PIC No	otification	
•lron	7439-89-6	Not Listed
•Feldspars	68476-25-5	Not Listed
Almandine-Ferric Aluminum Silicate	1302-62-1	Not Listed
•Quartz	14808-60-7	Not Listed
•Hornblende	12178-42-6	Not Listed
EU - Water Framework Directive (2000/60/EC) - List of Priority Substances - Anno	ex X	
•Iron	7439-89-6	Not Listed
•Feldspars	68476-25-5	Not Listed
•Almandine-Ferric Aluminum Silicate	1302-62-1	Not Listed
•Quartz	14808-60-7	Not Listed
•Hornblende	12178-42-6	Not Listed
	12170-42-0	NOT LISTED
Germany		
Labor		
Germany - Immission Control - Qualifying Quantities for Major Accident Prevent		NI 211 2 1
•lron	7439-89-6	Not Listed
•Feldspars	68476-25-5	Not Listed
Almandine-Ferric Aluminum Silicate	1302-62-1	Not Listed
•Quartz	14808-60-7	Not Listed
•Hornblende	12178-42-6	Not Listed
Germany - Immission Control - Qualifying Quantities for Safety Reporting		
•lron	7439-89-6	Not Listed
•Feldspars	68476-25-5	Not Listed
 Almandine-Ferric Aluminum Silicate 	1302-62-1	Not Listed
•Quartz	14808-60-7	Not Listed
•Hornblende	12178-42-6	Not Listed
Germany - TRGS 505 - Specific Lead Regulations		
•lron	7439-89-6	Not Listed
•Feldspars	68476-25-5	Not Listed
Almandine-Ferric Aluminum Silicate	1302-62-1	Not Listed
•Quartz	14808-60-7	Not Listed
•Hornblende	12178-42-6	Not Listed
Germany - TRGS 511 - Specific Ammonium Nitrate Regulations		
•lron	7439-89-6	Not Listed
•Feldspars	68476-25-5	Not Listed
Almandine-Ferric Aluminum Silicate	1302-62-1	Not Listed
•Quartz	14808-60-7	Not Listed
•Hornblende	12178-42-6	Not Listed
Environment		
Germany - TA Luft - Types and Classes		
•lron	7439-89-6	Not Listed
•Feldspars	68476-25-5	Not Listed
•Almandine-Ferric Aluminum Silicate	1302-62-1	Not Listed
•Quartz	14808-60-7	Not Listed
•Hornblende	12178-42-6	Not Listed
Germany - TA Luft - Emission Limits for Carcinogenic Substances	12110 120	Hot Elotod
•lron	7439-89-6	Not Listed
•Feldspars	68476-25-5	Not Listed
•Almandine-Ferric Aluminum Silicate	1302-62-1	Not Listed
•Quartz	14808-60-7	Not Listed
•Hornblende	12178-42-6	Not Listed
Germany - TA Luft - Emission Limits for Fibers	12110 42 0	
•Iron	7439-89-6	Not Listed
•Feldspars	68476-25-5	Not Listed
•Almandine-Ferric Aluminum Silicate	1302-62-1	Not Listed
•Quartz	14808-60-7	Not Listed
•Hornblende	12178-42-6	Not Listed
Hermondo	12110 42-0	

Germany - TA Luft - Emission Limits for Inorganic Dusts		
•lron	7439-89-6	Not Listed
•Feldspars	68476-25-5	Not Listed
•Almandine-Ferric Aluminum Silicate	1302-62-1	Not Listed
•Quartz	14808-60-7	Not Listed
•Hornblende	12178-42-6	Not Listed
Germany - TA Luft - Emission Limits for Inorganic Gases	12170-42-0	NOT LISTED
elron	7420 90 6	Not Listed
	7439-89-6	
•Feldspars	68476-25-5	Not Listed
Almandine-Ferric Aluminum Silicate	1302-62-1	Not Listed
•Quartz	14808-60-7	Not Listed
•Hornblende	12178-42-6	Not Listed
Germany - TA Luft - Emission Limits for Organic Substances		
•lron	7439-89-6	Not Listed
•Feldspars	68476-25-5	Not Listed
 Almandine-Ferric Aluminum Silicate 	1302-62-1	Not Listed
•Quartz	14808-60-7	Not Listed
•Hornblende	12178-42-6	Not Listed
Germany - Water Classification (VwVwS) - Annex 1		
		ID Number 748, not
•Iron	7439-89-6	considered hazardous to water
•Feldspars	68476-25-5	Not Listed
 Almandine-Ferric Aluminum Silicate 	1302-62-1	Not Listed
		ID Number 849, not
•Quartz	14808-60-7	considered hazardous to water
•Hornblende	12178-42-6	Not Listed
Germany - Water Classification (VwVwS) - Annex 2 - Water Hazard Classes		
•lron	7439-89-6	Not Listed
•Feldspars	68476-25-5	Not Listed
•Almandine-Ferric Aluminum Silicate	1302-62-1	Not Listed
•Quartz	14808-60-7	Not Listed
•Hornblende	12178-42-6	Not Listed
Germany - Water Classification (VwVwS) - Annex 3	12170-42-0	Not Elsted
•Iron	7439-89-6	Not Listed
•Feldspars	68476-25-5	Not Listed
Almandine-Ferric Aluminum Silicate	1302-62-1	Not Listed
•Quartz	14808-60-7	ID Number 849, not considered hazardous to water
•Hornblende	12178-42-6	Not Listed
Other		
Other		
Germany - Specifically Regulated Chemicals in TRGS	7400 00 0	Net Liste d
•Iron	7439-89-6	Not Listed
•Feldspars	68476-25-5	Not Listed
•Almandine-Ferric Aluminum Silicate	1302-62-1	Not Listed
•Quartz	14808-60-7	Not Listed
•Hornblende	12178-42-6	Not Listed
Germany - GUT - Substances Banned from Carpeting		
•lron	7439-89-6	Not Listed
•Feldspars	68476-25-5	Not Listed
 Almandine-Ferric Aluminum Silicate 	1302-62-1	Not Listed
•Quartz	14808-60-7	Not Listed
•Hornblende	12178-42-6	Not Listed
Greece		
Labor		
Greece - Substances Prohibited from Use in the Workplace		
•Iron	7439-89-6	Not Listed
•Feldspars	68476-25-5	Not Listed
•Almandine-Ferric Aluminum Silicate	1302-62-1	Not Listed

•Quartz	14808-60-7	Not Listed
•Hornblende	12178-42-6	Not Listed
Environment		
Greece - Air Quality Guidelines - 1 Hour		
•iron	7439-89-6	Not Listed
•Feldspars	68476-25-5	Not Listed
•Almandine-Ferric Aluminum Silicate	1302-62-1	Not Listed
•Quartz	14808-60-7	Not Listed
•Hornblende	12178-42-6	Not Listed
Greece - Air Quality Guidelines - 24 Hour		
•lron	7439-89-6	Not Listed
•Feldspars	68476-25-5	Not Listed
•Almandine-Ferric Aluminum Silicate	1302-62-1	Not Listed
•Quartz	14808-60-7	Not Listed
•Hornblende	12178-42-6	Not Listed
Greece - Air Quality Guidelines - Annual		
•lron	7439-89-6	Not Listed
•Feldspars	68476-25-5	Not Listed
Almandine-Ferric Aluminum Silicate	1302-62-1	Not Listed
•Quartz	14808-60-7	Not Listed
•Hornblende	12178-42-6	Not Listed
Greece - Surface Water Quality Standards		
•lron	7439-89-6	Not Listed
•Feldspars	68476-25-5	Not Listed
 Almandine-Ferric Aluminum Silicate 	1302-62-1	Not Listed
•Quartz	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);
•lron	7439-89-6	15.0 mg/L ELV (total, rivers);
		20.0 mg/L ELV (total, coastal waters)
•Eoldoporo	68476-25-5	Not Listed
•Feldspars •Almandine-Ferric Aluminum Silicate	1302-62-1	
•Quartz	14808-60-7	Not Listed Not Listed
•Hornblende	12178-42-6	Not Listed
Greece - Water Quality - Industrial Emission Limit Values (ELVs) - Monthly	12170-42-0	NOT LISTED
Greece - Water Quality - Industrial Emission Emit Values (EEVS) - Monthly		7.5 mg/L ELV (total, lakes);
		7.5 mg/L ELV (total, rivers);
•lron	7439-89-6	10.0 mg/L ELV (total, coastal
		waters)
•Feldspars	68476-25-5	Not Listed
 Almandine-Ferric Aluminum Silicate 	1302-62-1	Not Listed
•Quartz	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
•Quartz	14808-60-7	Not Listed
•Hornblende	12178-42-6	Not Listed
Greece - Major Accidents - Threshold Quantities for Safety Reporting	12170 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
•Quartz	14808-60-7	Not Listed
•Hornblende	12178-42-6	Not Listed
Greece - Marketing and Use Restrictions - Azodyes		
•lron	7439-89-6	Not Listed
•Feldspars	68476-25-5	Not Listed

 Almandine-Ferric Aluminum Silicate 	1302-62-1	Not Listed
•Quartz	14808-60-7	Not Listed
•Hornblende	12178-42-6	Not Listed
Indenecia		
Indonesia		
Environment		
Indonesia - Hazardous Waste from Non-Specific Sources		
•lron	7439-89-6	Not Listed
•Feldspars	68476-25-5	Not Listed
Almandine-Ferric Aluminum Silicate	1302-62-1	Not Listed
•Quartz	14808-60-7	
•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
•Quartz	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
•Quartz	14808-60-7	
•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
•Quartz	14808-60-7	Not Listed
•Hornblende	12178-42-6	Not Listed
Japan - ISHL Designated Carcinogens	12170 42 0	Not Listed
•lron	7439-89-6	Not Listed
	68476-25-5	Not Listed
•Feldspars		
•Almandine-Ferric Aluminum Silicate	1302-62-1	Not Listed
•Quartz	14808-60-7	Not Listed
•Hornblende	12178-42-6	Not Listed
Other		
Japan - Drinking Water Quality Standards - Supplied Water Quality Standard Value	s	
		0.3 mg/L (listed under Iron
•lron	7439-89-6	and its compounds)
•Feldspars	68476-25-5	Not Listed
•Almandine-Ferric Aluminum Silicate	1302-62-1	Not Listed
•Quartz	14808-60-7	Not Listed
•Hornblende	12178-42-6	Not Listed
Japan - Drinking Water Quality Standards - Quality Control Guideline Values	7400.00.0	
•lron	7439-89-6	Not Listed
•Feldspars	68476-25-5	Not Listed
 Almandine-Ferric Aluminum Silicate 	1302-62-1	Not Listed
•Quartz	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
•Quartz	14808-60-7	
•Hornblende		Not Listed
	12178-42-6	

Sharpjet Alluvial Garnet Abrasives Safety Data Sheet

Norea		
Labor Korea - ISHA - Harmful Substances Prohibited for Manufacturing, Importing, Trans	ferring, or Sup	plying
•lron	7439-89-6	Not Listed
•Feldspars	68476-25-5	Not Listed
Almandine-Ferric Aluminum Silicate	1302-62-1	Not Listed
•Quartz	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
•Quartz	14808-60-7	Not Listed
•Hornblende	12178-42-6	Not Listed
Korea - ISHA - Name, Toxicity and Protective Measures of New Chemical Substanc	es	
•lron	7439-89-6	Not Listed
•Feldspars	68476-25-5	Not Listed
Almandine-Ferric Aluminum Silicate	1302-62-1	Not Listed
•Quartz	14808-60-7	Not Listed
•Hornblende	12178-42-6	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
•Quartz	14808-60-7	Not Listed
•Hornblende	12178-42-6	Not Listed
Other		
Other Korea - MOE - Toxic Chemicals Control Act (TCCA) - Prohibited Chemicals		
•Iron	7439-89-6	Not Listed
•Feldspars	68476-25-5	Not Listed
•Almandine-Ferric Aluminum Silicate	1302-62-1	Not Listed
•Quartz	14808-60-7	Not Listed
•Hornblende	12178-42-6	Not Listed
Korea - MOE - Toxic Chemicals Control Act (TCCA) - Restricted 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
•Quartz	14808-60-7	Not Listed
•Hornblende	12178-42-6	Not Listed
Korea - MOE - Toxic Chemicals Control Act (TCCA) - Toxic Chemicals		
•Iron	7439-89-6	Not Listed
•Feldspars	68476-25-5	Not Listed
•Almandine-Ferric Aluminum Silicate	1302-62-1	Not Listed
•Quartz	14808-60-7	Not Listed
•Hornblende	12178-42-6	Not Listed
Mexico		
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
•Quartz	14808-60-7	Not Listed
•Hornblende	12178-42-6	Not Listed
Mexico - Ecological Criteria for Water Quality - Drinking Water Supply Source	7400 00 0	0.0
•lron	7439-89-6	0.3 mg/L
•Feldspars	68476-25-5	Not Listed
•Almandine-Ferric Aluminum Silicate	1302-62-1	Not Listed
•Quartz	14808-60-7	Not Listed

•Hornblende	12178-42-6	Not Listed
Mexico - Ecological Criteria for Water Quality - Protection of Fresh Water Aquati		
•lron	7439-89-6	1.0 mg/L
•Feldspars	68476-25-5	Not Listed
Almandine-Ferric Aluminum Silicate	1302-62-1	Not Listed
•Quartz	14808-60-7	Not Listed
•Hornblende	12178-42-6	Not Listed
Mexico - Ecological Criteria for Water Quality - Protection of Marine Water Aqua		
•lron	7439-89-6	0.05 mg/L
•Feldspars	68476-25-5	Not Listed
•Almandine-Ferric Aluminum Silicate	1302-62-1	Not Listed
•Quartz	14808-60-7	Not Listed
•Hornblende	12178-42-6	Not Listed
Netherlands		
Other		
Netherlands - List of Carcinogens		
•Iron	7439-89-6	Not Listed
•Feldspars	68476-25-5	Not Listed
•Almandine-Ferric Aluminum Silicate	1302-62-1	Not Listed
•Quartz	14808-60-7	(respirable dust, crystalline)
•Hornblende	12178-42-6	Not Listed
Netherlands - Major Accidents - Qualifying Quantities for Accident Prevention	12170-42-0	NOT LISTED
• Iron	7439-89-6	Not Listed
•Feldspars	68476-25-5	Not Listed
•Almandine-Ferric Aluminum Silicate	1302-62-1	Not Listed
•Quartz	14808-60-7	Not Listed
•Hornblende	12178-42-6	Not Listed
Netherlands - Major Accidents - Qualifying 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
•Quartz	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
•Quartz	14808-60-7	Not Listed
•Hornblende	12178-42-6	Not Listed
Norway		
-		
Environment		
Norway - Restricted Substances and Preparations	7400.00.0	
•lron	7439-89-6	Not Listed
•Feldspars	68476-25-5	Not Listed
Almandine-Ferric Aluminum Silicate	1302-62-1	Not Listed
•Quartz	14808-60-7	Not Listed
•Hornblende	12178-42-6	Not Listed
Russia		
Labor		
Russia - Limiting Quantities of Hazardous Substances		
•Iron	7439-89-6	Not Listed
•Feldspars	68476-25-5	Not Listed
•Almandine-Ferric Aluminum Silicate	1302-62-1	Not Listed
•Quartz	14808-60-7	Not Listed
•Hornblende	12178-42-6	Not Listed
	12110-72-0	

Slovak Republic

Labor		
Slovak Republic - Selected Chemical Agents and Usages Which are Not Permitted		
•lron	7439-89-6	Not Listed
•Feldspars	68476-25-5	Not Listed
 Almandine-Ferric Aluminum Silicate 	1302-62-1	Not Listed
•Quartz	14808-60-7	Not Listed
•Hornblende	12178-42-6	Not Listed
Environment		
Slovak Republic - Waste Regulations - List of Harmful Substances		
•lron	7439-89-6	Not Listed
•Feldspars	68476-25-5	Not Listed
 Almandine-Ferric Aluminum Silicate 	1302-62-1	Not Listed
•Quartz	14808-60-7	Not Listed
•Hornblende	12178-42-6	Not Listed
Taiwan		
raiwaii		
Environment		
Taiwan - Effluent Standards - Maximum Effluent Limitations		
•lron	7439-89-6	Not Listed
•Feldspars	68476-25-5	Not Listed
 Almandine-Ferric Aluminum Silicate 	1302-62-1	Not Listed
•Quartz	14808-60-7	Not Listed
•Hornblende	12178-42-6	Not Listed
Taiwan - Toxic Chemical Substances Control Act - Threshold Regulated Quantities		
•Iron	7439-89-6	Not Listed
•Feldspars	68476-25-5	Not Listed
Almandine-Ferric Aluminum Silicate	1302-62-1	Not Listed
•Quartz	14808-60-7	Not Listed
•Hornblende	12178-42-6	Not Listed
Taiwan - Toxic Chemical Substances Control Act - Classification and Control Levels		
•lron	7439-89-6	Not Listed
•Feldspars	68476-25-5	Not Listed
•Almandine-Ferric Aluminum Silicate	1302-62-1	Not Listed
•Quartz	14808-60-7	Not Listed
•Hornblende	12178-42-6	Not Listed
	12170 42 0	NOT LISTOU
United Kingdom		
Environment		
United Kingdom - Pollution Inventory - Schedule 1 - Thresholds for Releases to Air		
•Iron	7439-89-6	Not Listed
•Feldspars	68476-25-5	
Almandine-Ferric Aluminum Silicate	1302-62-1	Not Listed
•Quartz	14808-60-7	Not Listed
•Hornblende	12178-42-6	Not Listed
Tombiende	12170-42-0	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
•Quartz	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
•Quartz	14808-60-7	Not Listed
•Hornblende	12178-42-6	Not Listed
United Kingdom - Major Accidents - Qualifying Quantities for Safety Reporting		
•lron	7439-89-6	Not Listed

•Feldspars	68476-25-5	Not Listed
Almandine-Ferric Aluminum Silicate	1302-62-1	Not Listed
•Quartz	14808-60-7	Not Listed
•Hornblende	12178-42-6	Not Listed
United States		
Labor		
U.S OSHA - Process Safety Management - Highly Hazardous Chemicals		
•lron	7439-89-6	Not Listed
•Feldspars	68476-25-5	Not Listed
Almandine-Ferric Aluminum Silicate	1302-62-1	Not Listed
•Quartz	14808-60-7	
•Hornblende	12178-42-6	Not Listed
U.S OSHA - Specifically Regulated Chemicals		
•Iron	7439-89-6	Not Listed
•Feldspars	68476-25-5	Not Listed
•Almandine-Ferric Aluminum Silicate	1302-62-1	Not Listed
•Quartz	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
•Quartz	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
•Quartz	14808-60-7	Not Listed
•Hornblende	12178-42-6	Not Listed
U.S CERCLA/SARA - Radionuclides and Their Reportable Quantities		
•Iron	7439-89-6	Not Listed
•Feldspars	68476-25-5	Not Listed
Almandine-Ferric Aluminum Silicate	1302-62-1	Not Listed
•Quartz	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
•Quartz	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
•Quartz	14808-60-7	Not Listed
•Hornblende	12178-42-6	Not Listed
U.S CERCLA/SARA - Section 313 - Emission Reporting		
•lron	7439-89-6	Not Listed
•Feldspars	68476-25-5	Not Listed
Almandine-Ferric Aluminum Silicate	1302-62-1	Not Listed
•Quartz	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
•Quartz	14808-60-7	Not Listed

United States - California		
Environment		
U.S California - Proposition 65 - Carcinogens List		
•Iron	7439-89-6	Not Listed
•Feldspars	68476-25-5	Not Listed
Almandine-Ferric Aluminum Silicate	1302-62-1	Not Listed
		carcinogen, initial date
•Quartz	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
•Quartz	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
•Quartz	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
•Quartz	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
•Quartz	14808-60-7	
•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
•Quartz	14808-60-7	
•Hornblende	12178-42-6	Not Listed

12178-42-6 Not Listed

15.2 Chemical Safety Assessment

• No Chemical Safety Assessment has been carried out.

15.3 Other Information

•Hornblende

• 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.

Last Revision Date Preparation Date

- 19/August/2014
- 19/August/2014

Key to abbreviations NDA = No Data Available

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