SAFETY DATA SHEET
GTX BLASTING ABRASIVES

Section 1 - PRODUCT AND COMPANY IDENTIFICATION	
Product identifier used on the label:	Barton GTX Blasting Abrasives
Other means of identification:	Product Code: 00002 Trade Name: GTX Blasting Abrasives
Recommended use of the chemical and restrictions on use:	Recommended for use as an industrial abrasive. No applicable information is available for restrictions on use.
Name, address, and telephone number of the chemical manufacturer, importer, or other responsible party:	Barton International (Manufacturer) Six Warren Street Glens Falls, NY 12801 (518) 798-5462
Emergency phone numbers:	8:00 a.m. to 5:00 p.m. (Eastern): (518) 251-2296 5:00 p.m. to 8:00 a.m. (Eastern): (518) 542-4017 Barton International Sales: (800) 741-7756
Section 2 - HAZARD(S) IDENTIFICATION	
Classification of the Chemical in accordance with paragraph (d) of §1910.1200:	No applicable information is available. The product is made from metamorphic rock occurring in natural garnet deposits. The product does not meet any of the classifications identified in Appendices A or B of 29 CFR 1910.1200. 40.0 to 60.0% of the mixture consists of Feldspar with unknown acute toxicity. 35.0 to 50.0% of the mixture consists of Ilmenite, Magnetite, and/or Hornblende with unknown acute toxicity. 2.0 to 5.0% of the mixture consists of Almandine Garnet with unknown acute toxicity. <1.0% of the mixture may contain Quartz (Crystalline Silica) - Category 2 carcinogenic ingredient
Signal word, hazard statement(s), symbol(s) and precautionary statement(s) in accordance with paragraph (f) of §1910.1200:	CARCINOGENICITY: This product is not listed as a carcinogen by NTP or IARC, or regulated as a carcinogen by OSHA. However, it may contain crystalline silica (quartz), a substance which is classified by NTP as a Group 2 carcinogen and by IARC as a Group I carcinogen. Crystalline silica is a naturally-occurring mineral component of many sands and clays. Although controversial, the carcino- genic potential of crystalline silica must be considered if it is inhaled under excessive exposure conditions. However, the respirable portion of the silica which may be contained in this product is small, such that excessive inhalation exposure during normal conditions of use is unlikely.
Hazards not otherwise classified that have been identified during the classification process:	May cause respiratory irritation. Causes eye irritation. See Section 4 (First-Aid Measures).

Section 3 - COMPOSITION / INFORMATION ON INGREDIENTS

Hazardous Components - Common Name and (Synonyms)	CAS #	Concentration
Feldspar	68476-25-5	40.0 - 60.0%
Ilmenite, Magnetite, Hornblende	N/A	35.0 - 50.0%
Almandine Garnet	1302-62-1	2.0 - 5.0%
Quartz (Crystalline Silica)	14808-60-7	<1%

Section 4 - FIRST-AID MEASURES

First Aid Measures:	Eye Contact: Flush eyes with water for at least 15 minutes; occasionally lifting upper and lower eye lids. Consult physician. Ingestion: No hazard known or expected. Avoid ingestion. Consult physician.	Skin Contact: Wash with soap and water if irritation occurs. Consult physician. Inhalation: Move person to fresh air immediately. Consult physician.
Most important symptoms/effects, acute and delayed:	Eye Contact: Dust may cause irritation, redness, pain, or corneal damage if not flushed out promptly. Inhalation: Similar to nuisance dust. Acute, short term exposure may cause mild and temporary discomfort to respiratory tract. Skin Contact: May cause mild and temporary irritation. Ingestion: Rinse mouth with water, seek medical advice.	
Immediate medical attention and special treatment needed, if necessary:	If skin, eye, or respiratory irritation occurs, consult a physician.	

Section 5 - FIRE-FIGHTING MEASURES

Suitable (and unsuitable) extinguishing media:	Not combustible, however, if material is involved in a fire use: Extinguishing media appropriate to surrounding fire conditions.
Specific hazards arising from the chemical (e.g., nature of any hazardous combustion products):	Non-combustible material.
Special protective equipment and precautions for fire-fighters:	Non-combustible material.

Section 6 - ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment, and emergency procedures:	Wear safety glasses or face shields to protect against eye contact. A respiratory protection program that meets OSHA's 29 C.F.R. 1910.134 and ANSI Z88.2 requirements or European Standard EN149 must be implemented and followed whenever workplace conditions warrant respirator use. See Section 8 (Exposure Controls/Personal Protection) for additional information.
Methods and materials for containment and cleaning up:	Avoid creating dusty conditions. Work up wind and provide ventilation. Sweep up and shovel spilled material without creating dust. Keep in suitable closed containers for disposal.

Section 7 - HANDLING & STORAGE

Precautions for safe handling:	Provide appropriate exhaust ventilation at places where dust is formed. Avoid contact with eyes. Avoid inhaling dust. Facilities storing or utilizing this material should be equipped with an eyewash station and a safety shower.
Conditions for safe storage, including any incompatibilities:	Store in a dry area. Avoid excess heat. Incompatibilities are acidic conditions, strong oxidants, and hydrogen fluoride.

Section 8 - EXPOSURE CONTROLS/PERSONAL PROTECTION

OSHA permissible exposure limit (PEL), American Conference of Governmental Industrial Hygienists (ACGIH) Threshold Limit Value (TLV), and, where available, other exposure limit recommendations:

	PEL	TLV	Other
Feldspar	15 mg/m3 (dust)	10mg/m3 (TWA)	N/A
Ilmenite, Magnetite, Hornblende	15 mg/m3 (dust)	10mg/m3 (TWA)	N/A
Almandine Garnet	15mg/m3 (dust)	10mg/m3 (TWA)	N/A
Quartz (Crystalline Silica)	10 mg/m3 (2 + %) Respirable Quartz (dust)	0.05 mg/m3 (R)	N/A

Appropriate engineering controls:	Use adequate ventilation to keep airborne concentrations below applicable PELs and TLVs.
Individual protection measures, such as personal protective equipment:	• Wear appropriate protective eyeglasses or chemical safety goggles as prescribed by OSHA's eye and face protection regulations in 29 C.F.R. 1910.133 or European Standard EN166. Safety glasses with side-shields conforming to EN166. • 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 if irritation or other symptoms are experienced. For nuisance exposures use type P95 (US) or type P1 (EU EN 143) particle respirator. For higher level protection, use type OV/AG/P99 (US) or type ABEK-P2 (EU EN 143) respirator cartridges. Use respirators and components tested and approved under appropriate government or industrial standards such as NIOSH (US) or CEN (EU). • Information regarding protective gloves and clothing is unavailable. • Handle in accordance with good industrial hygiene and safety practices. Wash hands and face at breaks and at the end of the day. • Facilities storing or utilizing this material should be equipped with an eyewash station and a safety shower.

Section 9 - PHYSICAL AND CHEMICAL PROPERTIES	
Appearance (physical state, color, etc.):	Solid material consisting of red, pink, white, and/or black grains.
Odor:	No applicable information is available.
Odor threshold:	No applicable information is available.
pH:	No applicable information is available.
Melting point/freezing point:	Melting Point: ~ 1315.0 C (2399.0 F) Freezing Point: No applicable information is available.
Initial boiling point and boiling range:	No applicable information is available.
Flash point:	No applicable information is available.
Evaporation rate:	No applicable information is available.
Flammability (solid, gas):	No applicable information is available.
Upper/lower flammability or explosive limits:	No applicable information is available.
Vapor pressure:	No applicable information is available.
Vapor density:	No applicable information is available.
Relative density:	Specific Gravity: 2.8 to 3.0
Solubility(ies):	No applicable information is available.
Partition coefficient: n-octanol/water:	No applicable information is available.
Auto-ignition temperature:	No applicable information is available.
Decomposition temperature:	No applicable information is available.
Viscosity:	No applicable information is available.

Section 10 - STABILITY & REACTIVITY	
Reactivity:	No applicable information is available.
Chemical stability:	Stable under normal conditions of use.
Possibility of hazardous reactions:	None known.
Conditions to avoid (e.g., static discharge, shock, or vibration):	Incompatible materials, dust generation, and excess heat.
Incompatible materials:	Oxidizing Agents, Hydrogen Chloride. Incompatibilities are acidic conditions, strong oxidants, and hydrogen fluoride.
Hazardous decomposition products:	This product is stable under normal conditions. When exposed to high temperatures, free quartz can change crystal structure to form tridymite (above 870°C) or cristobalite (above 1470°C) which have higher health hazards than quartz. (Tridymite and cristobalite (TWA-TLV) = 0.025 mglm3.

Section 11 - TOXICOLOGICAL INFORMATION

Information on the likely routes of exposure (inhalation, ingestion, skin and eye contact):

Exposure Route: Inhalation, ingestion, skin/eye contact

Symptoms related to the physical, chemical and toxicological characteristics:

Acute effect: Irritation of the eyes, skin and respiratory system and cough.

Delayed and immediate effects and also chronic effects from short- and long-term exposure:

Chronic effect: This product is not classifiable as human carcinogen as sold.

Epidemiological studies in humans have revealed that crystalline silica may cause lung cancer, silicosis,
lymph node fibrosis, airways disease, emphysema and lung inflammation.

Numerical measures of toxicity (such as acute toxicity estimates):

This product contains a mixture of minerals. No adverse health effects expected if the product is handled in accordance with this Safety Data Sheet and the product label. Below are toxicity references for the minerals contained within this product.

CAS#	Component	NTP	IARC	ACGIH	OSHA
68476-25-5	Feldspar	N/A	N/A	N/A	N/A
N/A	Ilmenite, Magnetite, Hornblende	N/A	N/A	N/A	N/A
1302-62-1	Almandine Garnet	N/A	N/A	N/A	N/A
14808-60-7	Quartz (Crystalline Silica)	Known	1	A2	N/A

Section 12 - ECOLOGICAL INFORMATION (Non-Mandatory)

Ecotoxicity (aquatic and terrestrial, where available):

No applicable information is available.

Persistence and degradability:

No applicable information is available.

Bioaccumulative potential:

No applicable information is available.

Mobility in soil:

No applicable information is available.

Other Adverse Effects:

No applicable information is available.

Section 13 - DISPOSAL CONSIDERATIONS (Non-Mandatory)

Description of waste residues and information on their safe handling and methods of disposal, including the disposal of any contaminated packaging.

Material as supplied consists of metamorphic rock which, by itself, is not known to be a hazardous waste when disposed. Waste generators must determine whether used material and/or mixtures of used material and other matter is classified as a hazardous waste. US EPA regulations for waste classification determination are contained in Title 40 of the Code of Federal Regulations. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification.

Section 14 - TRANSPORT INFORMATION (Non-Mandatory)

UN number:	No applicable information is available.
UN proper shipping name:	No applicable information is available.
Transport hazard class(es):	No applicable information is available.
Packing group, if applicable;	No applicable information is available.
Environmental hazards (e.g., Marine pollutant (Yes/No)):	Marine Pollutant: No. Additional applicable information is not available.
Transport in bulk (according to Annex II of MARPOL 73/78 and the IBC Code):	No applicable information is available.
Special precautions which a user needs to be aware of, or needs to comply with, in connection with transport or conveyance either within or outside their premises:	DOT: Not regulated.

Section 15 - REGULATORY INFORMATION (Non-Mandatory)

Safety, health and environmental regulations specific for the product in question:

SARA (Superfund Amendments and Reauthorization Act of 1986) Lists:

CAS#	Component	§302 (EHS)	§304 (RQ)	§313 (TRI)
68476-25-5	Feldspar	**No**	**No**	**No**
N/A	Ilmenite, Magnetite, Hornblende	**No**	**No**	**No**
1302-62-1	Almandine Garnet	**No**	**No**	**No**
14808-60-7	Quartz (Crystalline Silica)	**No**	**No**	**No**

As indicated below, this product meets or does not meet the EPA "Hazard Categories" defined in SARA Title III Sections 311/312:

Acute (immediate) Health Hazard -- NO
Chronic (delayed) Health Hazard -- NO
Fire Hazard -- NO
Sudden Release of Pressure Hazard -- NO
Reactive Hazard -- NO

CAS#	Component	Other US EPA or State Lists
68476-25-5	**Feldspar**	CAA HAP, ODC: No; CWA NPDES: No; TSCA: Inventory; CA Prop 65: No; CA TAC, Title 8: No; MA Oil/Hazmat: No; MI CMR, Part 5: No; NC TAP: No; NJ EHS: No; NY Part 597: No; PA HSL: No; SC TAP: No; WI Air: No.
N/A	**Ilmenite, Magnetite, Hornblende**	CAA HAP, ODC: No; CWA NPDES: No; TSCA: No; CA Prop 65: No; CA TAC, Title 8: No; MA Oil/Hazmat: No; MI CMR, Part 5: No; NC TAP: No; NJ EHS: No; NY Part 597: No; PA HSL: No; SC TAP: No; WI Air: No.
1302-62-1	**Almandine Garnet**	CAA HAP, ODC: No; CWA NPDES: No; TSCA: No; CA Prop 65: No; CA TAC, Title 8: No; MA Oil/Hazmat: No; MI CMR, Part 5: No; NC TAP: No; NJ EHS: No; NY Part 597: No; PA HSL: No; SC TAP: No; WI Air: No.

14808-60-7	**Quartz (Crystalline Silica)**	CAA HAP, ODC: No; CWA NPDES: No; TSCA: Inventory; CA Prop 65: Yes; CA TAC, Title 8: No; MA Oil/Hazmat: No; MI CMR, Part 5: No; NC TAP: No; NJ EHS: Yes - 1660; NY Part 597: No; PA HSL: Yes -1; SC TAP: No; WI Air: No.

CAS#	Component	International Regulatory Lists
68476-25-5	**Feldspar**	Canadian DSL: No; Canadian NDSL: Yes; Australia ICS: Yes; New Zealand IOC: Yes; China IECSC: Yes; Japan ENCS: No; Japan ISHL: No; Korea ECL: Yes-KE-16962; Philippines ICCS: Yes; Taiwan TCSCA: Yes; Singapore HSL: No; Israel HSL: No; Germany WHCS: No; Switzerland Giftliste 1: No; Switzerland INNS: No; REACH: Yes - (P); Kyoto GHG: No; Rotterdam: No; Stockholm: No.
N/A	**Ilmenite, Magnetite, Hornblende**	Canadian DSL: No; Canadian NDSL: No; Australia ICS: No; New Zealand IOC: No; China IECSC: No; Japan ENCS: No; Japan ISHL: No; Korea ECL: No; Philippines ICCS: No; Taiwan TCSCA: No; Singapore HSL: No; Israel HSL: No; Germany WHCS: No; Switzerland Giftliste 1: No; Switzerland INNS: No; REACH: No; Kyoto GHG: No; Rotterdam: No; Stockholm: No.
1302-62-1	**Almandine Garnet**	Canadian DSL: No; Canadian NDSL: No; Australia ICS: No; New Zealand IOC: Yes; China IECSC: No; Japan ENCS: No; Japan ISHL: No; Korea ECL: No; Philippines ICCS: No; Taiwan TCSCA: Yes; Singapore HSL: No; Israel HSL: No; Germany WHCS: No; Switzerland Giftliste 1: No; Switzerland INNS: No; REACH: No; Kyoto GHG: No; Rotterdam: No; Stockholm: No.
14808-60-7	**Quartz (Crystalline Silica)**	Canadian DSL: Yes; Canadian NDSL: No; Australia ICS: Yes; New Zealand IOC: Yes; China IECSC: Yes; Japan ENCS: Yes-(1)-548; Japan ISHL: No; Korea ECL: Yes-KE-29983; Philippines ICCS: Yes; Taiwan TCSCA: Yes; Singapore HSL: No; Israel HSL: No; Germany WHCS: Yes-849; Switzerland Giftliste 1: No; Switzerland INNS: No; REACH: Yes-(P); Kyoto GHG: No; Rotterdam: No; Stockholm: No.

Section 16 - OTHER INFORMATION & DATE OF PREPARATION OF LAST REVISION	
Date of preparation of the SDS or the last change to it.	Revision Date: 21 NOV 13 DISCLAIMER: This Safety Data Sheet (SDS) summarizes our best knowledge of the health and safety hazard information of the specified product and how to safely handle the specified product in the workplace; however, Barton International expressly disclaims that the SDS document is a representation or guarantee of the chemical specifications for the specified product. Each user should read the SDS and consider the information in the context of how the selected product will be handled and used in the workplace including its use in conjunction with other products. If clarification or further information is needed to ensure that an appropriate risk assessment can be made, the user should contact Barton International. BARTON INTERNATIONAL MAKES NO WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OR COURSE OF PERFORMANCE OR USAGE OF TRADE. User is responsible for determining whether the product is fit for a particular purpose and suitable for user's method of use or application. Given the variety of factors that can affect the use and application of the product, some of which are uniquely within the user's knowledge and control, it is essential that the user evaluate the product to determine whether it is fit for a particular purpose and suitable for user's method of use or application.