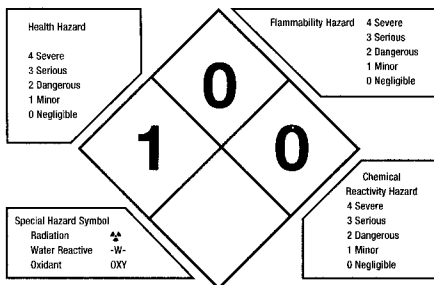


NFPA HAZARD LABEL



K.C. ABRASIVE COMPANY, LLC

SECTION I

TRADE NAME
MICRO ALUMINA "ST"

CHEMICAL NAME
 Aluminum Oxide, Calcined Alumina

SECTION II CHEMICAL COMPOSITION

CHEMICAL NAME	%	OSHA REGULATED (Y/N)	CAS #	PERMISSIVE EXPOSURE LIMIT	ACGIH TLV	OSHA CARCINOGEN (Y/N)
Aluminum Oxide (Non-Fibrous) Al ₂ O ₃	98	Y	1344-28-1	15mg/m ³	10mg/m ³	N
Silicon Dioxide (SiO ₂)	1	N	7631-86-9		6mg/m ³	N
Crystalline Silica (SiO ₂)	0-.12	Y	14808-60-7	<u>30 mg/m³</u> % SiO ₂ + 2	0.3 mg/m ³ 1 mg/m ³ (resp)	Y
Other oxides less than 1% (Na ₂ O, TiO ₂ , K ₂ O, CaO, Fe ₂ O ₃)						

SECTION III PHYSICAL DATA

MELTING POINT	2000 C
HARDNESS	9 Mohs, 2100 Knoop
SOLUBILITY	Insoluble in water and organic solvents
pH	7-8
SPECIFIC GRAVITY	3.94 gm/cc
APPEARANCE AND ODOR	White, solid, flat, clear, plate-shaped, odorless crystals
FLAMMABILITY	Non-flammable, does not support combustion, not an explosion hazard
STABILITY	Stable, polymerization will not occur, does not react with water, air, heat or strong oxidizers
BULK DENSITY (RANGE)	1.101-1.612 gm/cm ³ . Specific bulk density available upon request

Effective date 01-01-01

SECTION IV HEALTH, FIRST AID & MEDICAL DATA

PRIMARY ROUTES OF ENTRY	ACUTE AND CHRONIC HEALTH EFFECTS & EFFECTS OF OVEREXPOSURE
INHALATION	<i>ACUTE:</i> May cause coughing and shortness of breath <i>CHRONIC:</i> Exposure to crystalline silica may cause lung scarring which may lead to progressive and massive fibrosis and chronic lung injury (silicosis)
INGESTION	No known adverse effects, but ingestion not recommended
SKIN CONTACT & ABSORPTION	Not absorbed through the skin: may cause irritation
EYE	May irritate eyes
OTHER POTENTIAL HEALTH RISKS	IARC Monographs on the evaluation of the carcinogenic risk of chemicals to humans (Vol. 42, 1987) concludes that there is sufficient evidence for the carcinogenicity of crystalline silica in experimental animals, and there is limited evidence of the carcinogenicity of crystalline silica to humans, IARC Class 2A
FIRST AID	Remove to fresh air, obtain medical assistance if needed. For dust in the eyes, wash with large amounts of water and seek medical attention if irritation persists.

SECTION V SAFE HANDLING & USE

HANDLING PROCEDURES	Use with adequate ventilation to meet exposure limits. When exposure is excessive, NIOSH approved respiratory equipment is recommended.
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SECTION VI REGULATORY INFORMATION

TSCA	The chemical components of this product are registered under the Toxic Substances Control Act (Title 40 CFR part 710).
CERCLA	This substance contains no ingredients listed on the extremely hazardous CERCLA lists.
EPCRA (Sections 302, 304, 311, 312 and 313)	The reportable chemical substances in this product are regulated by OSHA 29 CFR 1910. 1200 and are subject to reporting requirements.
DOT	Not regulated as a hazardous substance.

The information contained on this product data/specifications sheet reflects the latest information and data that we have on hazards, properties and handling of this product under the recommended conditions of use. Any modification of product use or method of application is the responsibility of the user. Seller makes no other warranty or representation of any kind, expressed or implied, concerning the product. This information is intended to be in compliance with the OSHA Hazard Communication Standard.