

# MATERIAL SAFETY DATA SHEET

(OSHA 29 CFR 1910.1200)

## BLASTOX<sup>®</sup>

### SECTION I – IDENTITY

Supplier's Name and Address: The TDJ Group, Inc. 760-A Industrial Drive Cary, Illinois 60013

Information Telephone Number: 847-639-1113 phone ◆ 847-639-0499 fax

Date of Preparation: January 17, 2014

### SECTION II - INGREDIENTS / IDENTITY INFORMATION

Common Name Blastox<sup>®</sup> Abrasive Blasting Additive

#### Ingredients

Ca <sub>3</sub> SiO <sub>5</sub>	TriCalcium Silicate	(CAS# 12168-85-3)
Ca <sub>2</sub> SiO <sub>4</sub>	Di Calcium Silicate	(CAS# 10034-77-2)
Ca <sub>3</sub> Al <sub>2</sub> O <sub>3</sub>	TriCalcium Aluminate	(CAS# 12042-78-3)
Ca <sub>4</sub> Al <sub>2</sub> Fe <sub>2</sub> O <sub>10</sub>	Calcium Alumino Ferrite	(CAS# 12068-35-8)

Trace amounts of CaO and MgO may also be present

### SECTION III - PHYSICAL / CHEMICAL CHARACTERISTICS

Solubility in water	-	Slight (0.1 - 1.0 %)
Specific gravity	-	3.15 - 3.22
Appearance & Odor	-	Dark Gray with no odor

The following properties are not applicable as the Blastox<sup>®</sup> is a solid granular form:

Boiling point, Melting point, Vapor pressure, Vapor Density, Evaporation rate

### SECTION IV - FIRE AND EXPLOSION HAZARD DATA

Blastox<sup>®</sup> is neither flammable nor explosive.

### SECTION V - REACTIVITY DATA

Blastox<sup>®</sup> is stable and hazardous polymerization will not occur. Keep Blastox<sup>®</sup> dry until used.

### SECTION VI – HEALTH DATA

According to NIOSH Test Method NMAN 7500, Blastox<sup>®</sup> has no detectable levels of quartz or cristobalite crystalline silica.

Routes of Entry: Inhalation? Yes Skin? No absorption Ingestion? Yes

ACGIH Threshold Limit Value (1988 – 1989):

Total dust containing no asbestos and less than 2% silica .

OSHA PEL (transitional):

Total dust 50 million particles per cubic foot.

OSHA PEL (Final):

Total dust 10 mg/m<sup>3</sup>, Respirable dust 5 mg/m<sup>3</sup>.

Effects of Overexposure:

Acute: This material contains calcium silicates and calcium aluminates, is alkaline and can dry the skin and may cause caustic burns. Direct contact with the eyes can cause irritation. Inhalation can irritate the upper respiratory system.

Chronic: Abrasive dusts can cause inflammation of the lining tissue of the nose and inflammation of the cornea. Hypersensitive individuals may develop an allergic dermatitis.

Signs and Symptoms Of Exposure: Redness to skin, minor irritation to eyes, nose and throat.

Emergency First Aid Procedure: Irrigate (flood) eyes immediately and repeatedly with clean water. Wash exposed skin areas with soap and water. Apply sterile dressings. Remove from further exposure those individuals who develop signs or Symptoms. Consult a Physician immediately.

## SECTION VII – PRECAUTIONS FOR SAFE HANDLING AND USE

If Blastox® is spilled it can be cleaned up by using normal dry methods. Use protective clothing to prevent skin exposure. Rubber boots, rubber gloves, tight fitting goggles and OSHA, MSHA or NIOSH approved respirators should be used. Emergency procedures are not required.

Blastox® can be treated as a common waste for disposal or returned to the container for later use if it is not contaminated or wet.

## SECTION VIII – CONTROL MEASURES

Observe ANSI standard Z88.1980 “Practices for Respiratory Protection,” and standard Z9.4-19804 “Ventilation and Safe Practices of Abrasive Blasting Operations.”

Local exhaust can be used to control airborne dust levels. Use protective clothing to prevent skin exposure. Rubber boots, rubber gloves, tight fitting goggles and OSHA, MSHA, or NIOSH approved respirators should be used.

Following work with Blastox®, workers should wash with soap and water and apply a moisturizing cream.