

## MATERIAL SAFETY DATA SHEET (MSDS)

### Section 1. Chemical products & company identification

PRODUCT NAME: Crushed Glass  
 PRODUCT USE: Additive/Raw Material  
 CAS REGISTRY NUMBER: 65997-17-3 (Glass, oxide)  
 TSCA REGISTRY NUMBER: 65997-17-3  
 PREPARATION/REVISION DATE: January 1, 2009

### Section 2. Composition/information on ingredients

PRODUCT NAME: Crushed Glass  
 CHEMICAL NAME: Soda-Lime Glass  
 SYNONYMS: Glass Fragments  
 HAZARDOUS COMPONENTS: None Identified  
 EXPOSURE STANDARDS  
 OSHA PEL\*: 15 mg/m<sup>3</sup> total dust, 5mg/m<sup>3</sup>  
 5 mg/m<sup>3</sup> respirable dust  
 ACGIH TLV\*\*: 10 mg/m<sup>3</sup>  
 CAL/OSHA: 10 mg/m<sup>3</sup>

\* = Permissible exposure limit  
 \*\* = Threshold limit value

### Component/regulatory information

Component	Percent in mixture	OSHA PEL (mg/mg3)	ACGIH TLV (mg(m3))
Silicon dioxide	72-81	15 (total dust) 5 (respirable fraction)	10
Calcium oxide	9.75-8.58	2	2
Sodium oxide	13-14	Not listed	Not listed
Aluminium oxide	0.2-0.4	Not listed	10
Iron oxide	0-0.356	10	5
Magnesium oxide	3-4	10 (fume)	10 (fume)
Potassium oxide	0.1-0.4	Not listed	Not listed
Other oxides	<0.25	Not listed	Not listed

Note: Surface coatings, including paints, inks, and other colorants, may have been applied to the recycled material prior to processing by Strategic Materials Inc. It is anticipated that any hazardous materials that may be present in the coatings would generally represent less than 0.1 % of the total material present.

National Fire Protection Association (NFPA) Classification:

Health: 1  
 Flammability: 0  
 Reactivity: 0

Hazardous Materials Information Systems (HMIS):

Red (Flammability): 0

Yellow (Reactivity): 0  
 Blue (Acute Effects): 1

TSCA NUMBER:	65997-17-3
RCRA (40 CFR 26):	Non Regulated
CERCLA (SUPERFUND):	Not listed under any section
CWA (CLEAN WATER ACT):	Not covered by any water quality criteria under section 304
SAFE DRINKING WATER ACT:	Not listed
NTP ANNUAL REPORT ON CARCINOGENS:	Not listed as carcinogen
OSHA CARCINOGEN:	Not listed as an OSHA carcinogen
IARC:	Not listed as carcinogen
PROP 65:	Not listed as a carcinogen or reproductive toxin

### Section 3. Physical & Chemical Properties

SOLUBILITY IN WATER:	non soluble
APPEARANCE AND ODOR:	crushed - odorless
ODOR THRESHOLD:	none
SOFTENING POINT:	724°C/1335.2°F
pH VALUE:	not available
SPECIFIC GRAVITY (H <sub>2</sub> O = 1):	2.46-2.49
VAPOR PRESSURE:	not applicable
PERCENT VOLATILE (VOLUME %):	not applicable

### Section 4. Fire and Explosion Hazard Data

GENERAL HAZARD:	none
UEL/LEL:	not available
AUTOIGNITION TEMPERATURE:	not available
FLASH POINT:	not applicable
EXTINGUISHING MEDIA:	non-combustible
FLAMMABILITY CLASSIFICATION:	not applicable
SPECIAL FIRE FIGHTING PROCEDURES:	Special fire fighting procedures are not associated with this product, however, firefighters should wear positive pressure, self contained breathing apparatus if this product is found with other materials.

### Section 5. Stability & Reactivity

STABILITY:	stable
INCOMPATIBILITY:	inert material - not applicable
HAZARDOUS DECOMPOSITION PRODUCTS:	Surface coatings, including paints, inks, and other colorants, may have been applied to the material prior to processing by Strategic Materials Inc. Some organic material may also be present. Strategic Materials Inc.

HAZARDOUS POLYMERIZATION: may have no specific knowledge of the particular coatings or organic chemicals.  
will not occur

## Section 6. Health and Hazard Information

EMERGENCY OVERVIEW: Crushed Glass consists of glass fragments that are not flammable, combustible, or explosive, and it presents no unusual hazard if involved in a fire. contact with eyes, skin or mucous membranes may cause irritation. Glass presents little hazard (to humans) and has low acute oral toxicity.

ROUTES OF EXPOSURE: Inhalation, direct contact with eyes or skin, incidental ingestion.

INHALATION: Dust may cause irritation to the nose, throat, and respiratory tract.

EYE CONTACT: May cause irritation and transient corneal injury.

DERMAL CONTACT: Dust may cause irritation. Small particles embedded in skin may cause swelling and ulceration.

INGESTION: Ingestion may cause irritation of the digestive tract.

CANCER: This product (or any component of this product) is not considered a carcinogen.

REPRODUCTIVE: No data available for this product.

TARGET ORGANS: No target organs have been determined in humans or animals from this product.

SIGNS AND SYMPTOMS OF EXPOSURE: Symptoms of accidental over-exposure may be associated with irritation of the eyes, nose, throat and respiratory tract. Accidental ingestion may cause adverse digestive tract effects.

EMERGENCY/FIRST AID PROCEDURES: EYES: Immediately flush eyes with water for 15 minutes. If irritation persists, call a physician.

SKIN: Wash with soap and water until no evidence of chemical remains (15-20 minutes).

INHALATION: Remove from exposure area to fresh air immediately. Treat symptomatically and supportively.

INGESTION: Rinse mouth with water. If vomiting occurs, have victim lean forward to reduce risk of aspiration.

NOTE TO PHYSICIAN: Treat symptomatically and supportively.

## Section 7. Exposure Controls/Personal Protection

ENGINEERING CONTROLS: Use local exhaust ventilation system to keep dust levels down. If using this product as an abrasive blast agent in confined areas, airborne dust levels should be controlled by physical enclosure of the abrasive blasting operation. The enclosure should be exhaust ventilated in accordance with 29 CFR 1910.94 Ventilation (a)

EYE PROTECTION:	Abrasive blasting. Use splash proof or dust resistant goggle.
SKIN PROTECTION:	Not typically required, however, depending on the application, the user may elect to wear leather gloves, apron, boots or whole bodysuit, as appropriate.
RESPIRATORY PROTECTION:	ANIOSH/MSHA approved air purifying respirator with a dust/mist cartridge or canister may be permissible under certain circumstances where airborne concentrations are expected to exceed exposure limits. Protection provided by air purifying respirators is limited.  For abrasive blasting use a continuous flow air-line respirator covering head, neck, and shoulders to provide protection from rebound abrasive per 29 CFR 1910.94 (a)(5).

### **Section 8. Accidental Release Measures**

ACTION TO TAKE FOR SPILLS OR LEAKS:	The components of this product are non-hazardous wastes when spilled or disposed of, as defined in the Resource Conservation and Recovery Act (RCRA) regulations (40 CFR 261).
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### **Section 9. Handling and Storage**

GENERAL:	Store in dry area. Keep container tightly closed. Good housekeeping should be maintained to minimize dust accumulation and generation.
HYGIENIC PRACTICES:	Do not get in eyes, skin or clothing. Wash hands thoroughly after handling, and before eating, drinking, or smoking.

### **NOTICE**

Judgements as to suitability of information herein for purchaser's purposes are necessarily purchaser's responsibilities. Therefore, although reasonable care has been taken in the preparation of such information, ceroglass extends no warranties, make no representations, and assumes no responsibility as to the accuracy or suitability of such information for application to purchaser's intended purposes or for consequences of its use.

## REFERENCES

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