

# Material Safety Data Sheet



## CHRYSO®Turbocast®HE+

Product: TURBOCASTHEPLUS

Revision Date: 2009/06/06

### Section 1 : PRODUCT AND COMPANY IDENTIFICATION

**Chemical family:** Mixture.

**Product name:** CHRYSO®TurboCast®HE+.

**Supplier:** Same as manufacturer.

**Manufacturer:** Chryso, Inc.  
10600 Hwy 62, Unit #7  
Charlestown, IN 47111  
Phone: 812-256-4220  
Fax: 812-256-4235.

**Manufacturer emergency phone number:** Chemtrec 800-424-9300.

### Section 2 : INGREDIENT INFORMATION

C.A.S.	CONCENTRATION %	Ingredient Name	T.L.V.	LD/50	LC/50
10043-52-4	*	CALCIUM CHLORIDE	NOT AVAILABLE	1000 MG/KG RAT ORAL  1940 MG/KG MOUSE ORAL  1384 MG/KG RABBIT ORAL	NOT AVAILABLE

### Section 2A: ADDITIONAL INGREDIENT INFORMATION

\*: Concentration of ingredient is not disclosed.

### Section 3 : HAZARD IDENTIFICATION

**Emergency overview:** Moderately irritating to skin, severely irritating to eyes.

**Route of entry:** Skin contact, eye contact, inhalation and ingestion.

Effects of acute exposure

**Eye contact:** May cause injury.  
May cause moderate to severe irritation.  
Injuries may be slow to heal.

**Skin contact:** Prolonged exposure may cause skin burns.  
May cause moderate irritation.

**Inhalation:** May cause respiratory irritation.  
May cause coughing and chest pain.  
May cause nose bleeds.

**Ingestion:** May cause gastro-intestinal irritation.  
May cause nausea, vomiting and diarrhea.  
May cause ulceration.  
May cause abdominal pain.

**Effects of chronic exposure:** Excessive contact may produce soda ulcers on hands and perforation of nasal septum.

**Sensitization to product:** May cause skin sensitization.

**Carcinogenic effects:** Not available.

**Reproductive effects:** Not available.

**Teratogenicity:** Not available.

**Mutagenicity:** Not available.

**Synergistic materials:** Not available.

#### Section 4 : FIRST AID MEASURES

**Skin contact:** Remove contaminated clothing.  
Wash with water and soap for at least 15 minutes.  
Seek medical attention if irritation persists.

**Eye contact:** Immediately flush eyes with large amounts of water for at least 15 minutes, lifting upper and lower lids. Get prompt medical attention.

**Inhalation:** Remove victim to fresh air. If breathing is difficult administer oxygen. If not breathing, have qualified person give artificial respiration. Obtain medical attention.

**Ingestion:** Obtain immediate medical attention.  
Rinse mouth with water several times.  
Never give anything by mouth to an unconscious person.  
If conscious, give large amounts of water and induce vomiting.

**Additional information:** The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. This company shall not be held liable for any inaccuracies.

#### Section 5 : FIRE FIGHTING MEASURES

**Flammability:** Not flammable.

**Conditions of flammability:** Surrounding fire.

**Extinguishing media:** Use appropriate extinguishing media for surrounding fire.

**Special procedures:** Self-contained breathing apparatus required.  
Firefighters should wear the usual protective gear.

**Auto-ignition temperature (°C):** Not available.

**Flash point (°C), method:** Not available.

**Lower flammability limit (% vol):** Not available.

**Upper flammability limit (% vol):** Not available.

#### Explosion Data

**Sensitivity to static discharge:** Not available.

**Sensitivity to mechanical impact:** Not available.

**Hazardous combustion products:** Hydrochloric acid.  
Phosphoric acid.  
Oxides of calcium (CaOx).

**Rate of burning:** Not available.

**Explosive power:** Not available.

#### Section 6 : ACCIDENTAL RELEASE MEASURES

**Leak/Spill:** Prevent entry into drains, sewers, and other waterways.  
Wear appropriate protective equipment.  
Wash spill area after material pick up is complete.  
Soak up with inert absorbent.  
Transfer to an approved container for disposal or recovery.

#### Section 7 : HANDLING AND STORAGE

**Handling procedures and equipment:** Use adequate ventilation.  
Wash thoroughly after using, particularly before eating or smoking.  
Wear personal protective equipment appropriate to task.  
Avoid contact with skin, eyes and clothing.  
Do not take internally.  
Avoid breathing vapor, fumes or mist.  
Launder contaminated clothing prior to reuse.

**Storage requirements:** Store away from incompatible materials.  
Store in a cool, dry and well ventilated area.  
Store in tightly sealed containers.

#### Section 8 : EXPOSURE CONTROLS / PERSONAL PROTECTION

##### Precautionary Measures

**Gloves/Type:**



Impervious gloves.

**Respiratory/Type:**



Wear a NIOSH approved respirator.  
If dust is generated.

**Eye/Type:**



Splash proof chemical goggles.  
Do not wear contact lenses.

**Footwear/Type:** Safety shoes per local regulations.

**Clothing/Type:** As required to prevent skin contact.



Impervious clothing (apron, coveralls).

**Other/Type:** Eye wash facility should be in close proximity.  
Emergency shower should be in close proximity.

**Ventilation requirements:** Local and mechanical exhaust ventilation.

**Exposure limit of material:** Not available.

### Section 9 : PHYSICAL AND CHEMICAL PROPERTIES

**Physical state:** Liquid.

**Appearance & odor:** Clear to light brown.

**Odor threshold (ppm):** Not applicable.

**Vapour pressure (mmHg):** Not available.

**Vapour density (air=1):** Not available.

**Volatiles (%)**

**By volume:** Not available.

**Evaporation rate  
(butyl acetate = 1):** Not available.

**Boiling point (°C):** Not available.

**Freezing point (°C):** Not available.

**pH:** 7.0–9.5.

**Specific gravity @ 20 °C:** 1.30–1.36.

**Solubility in water (%):** Infinite.

**Coefficient of water\oil dist.:** Not available.

**solids by weight:** Not available.

### Section 10 : STABILITY AND REACTIVITY

**Chemical stability:** Stable under normal pressures and temperatures.

**Conditions of instability:** None known.

**Hazardous polymerization:** Not available.

**Incompatible substances:** Water reactive materials.  
Acids  
Aluminum (Al).  
Bromine trifluoride.  
Zinc (Zn).  
Metals.  
Sulfuric acid (H<sub>2</sub>SO<sub>4</sub>).  
Methyl vinyl ether.  
Boron trioxide + calcium oxide.  
Barium chloride.  
2–Furanpercarboxylic acid.

**Hazardous decomposition** Contact with sulfuric acid yields hydrogen chloride.  
**products:** Contact with zinc, as in galvanized iron, yields hydrogen gas.

### Section 11 : TOXICOLOGICAL INFORMATION

**LD50 of product, species & route:** Not available for mixture, see the ingredients section.

**LC50 of product, species & route:** Not available.

### Section 12 : ECOLOGICAL INFORMATION

**Environmental toxicity:** No data at this time.

**Environmental fate:** No data at this time.

### Section 13 : DISPOSAL CONSIDERATIONS

**Waste disposal:** In accordance with local and federal regulations.

### Section 14 : TRANSPORT INFORMATION

**D.O.T. Classification:** Not regulated.

### Section 15 : REGULATORY INFORMATION

**WHMIS classification:**

D2B



**DSL status:** All the chemicals in this product are on the DSL or are otherwise exempt from DSL requirements, such as impurities, by-products and unwanted constituents.

**TSCA inventory:** All the chemicals in this product are on the TSCA inventory list or are otherwise exempt from TSCA requirements, such as impurities, by-products and unwanted constituents.

**SARA Section 313:** Not regulated.

**SARA hazard categories sections** Immediate (Acute) Health Hazard: Yes.

**311/312:** Delayed (Chronic) Health Hazard: No.

Fire Hazard: No.

Reactive: No.

**CERCLA reportable quantity:** Not regulated.

### Section 16 : OTHER INFORMATION

**Supplier MSDS date:** 2009/06/06.

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