



SECTION 1 – IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product Name:	Christy Cast 99 HT
Product Description:	The product is a dry granular mixture.
Company Name and Address	Christy Catalytics, LLC 4641 McRee Avenue St. Louis, MO 63110
Telephone No.:	Infotrac – 800-535-5053 or +1-352-323-3500
Recommended Uses:	Ceramics, Castable Refractories

SECTION 2 – HAZARD IDENTIFICATION

Emergency Overview:	Non-flammable, odorless, gray to white granular or powder mineral. Inhalation of high concentration of dusts may cause eye irritation and upper respiratory tract irritation.. Avoid dust creation. Do not inhale dusts from this product. Use vacuum or wet cleanup methods to remove dusts.
Precautions:	Pre-existing lung conditions such as, but not limited to bronchitis, emphysema and asthma.
Acute Health Effects:	Eyes: Corrosive and physical eye irritant Skin: Prolonged handling can dry skin Inhalation: dust of this product may be irritating to respiratory tract. 
Chronic Health Effects:	Excessive inhalation of dust from these products can cause pneumoconiosis. 
Carcinogenicity:	NTP: No IARC: No OSHA: No

SECTION 3 – COMPOSITION AND INFORMATION ON INGREDIENTS

CHEMICAL NAME	%	CAS#	OSHA PELs	ACHIG TLVs	CARCINOGEN
Aluminum Oxide	>96	1344-28-1	15 mg/ m ³ total 5 mg/m ³ resp	10 mg/m ³ total	No Data
Calcium Aluminate	< 3	65997-16-2	NAIF	NAIF	No Data

SECTION 4 – FIRST AID MEASURES

Inhalation:	Move to fresh air. If breathing difficulty continues, give oxygen and obtain medical help.
Eye Contact:	Flush with water for at least 15 minutes. Call physician if irritation persists.
Skin Contact:	Wash with soap and warm water. If irritation develops, consult a physician.

Ingestion:	If ingested, do not induce vomiting. Obtain medical attention.
-------------------	--

SECTION 5 – FIRE FIGHTING MEASURES

Flammability:	Non-combustible
Auto ignition Temperature:	Not Applicable
Combustion Products:	Not Applicable
Means of Extinction:	Use extinguishing media appropriate for surrounding materials.
Upper and Lower Flammable Limit:	Not Applicable
Special Fire Fighting Procedures:	Not Applicable. This product is not combustible.
Sensitivity to Mechanical Impact/Static Discharge:	Not Applicable
Flash Point:	Not Applicable



SECTION 6 – ACCIDENTAL RELEASE MEASURES

Accidental Release Measures	Avoid inhalation of dust. See section 8 for Personal Protective Equipment. Avoid dust formation, collect dust using a vacuum cleaner equipped with HEPA filter. If not possible moisten dust with water before collecting it with a shovel, broom or the like. Disposal see section 13.
------------------------------------	--

SECTION 7– HANDLING AND STORAGE

Handling:	Avoid breathing dust. Use only with adequate ventilation. Observe good industrial hygiene practices.
Storage:	Store in closed containers. Storage and work areas should be periodically cleaned to minimize dust accumulation.

SECTION 8– EXPOSURE CONTROLS AND PERSONAL PROTECTION

Ventilation:	Provide local exhaust ventilation to meet exposure limits.
Respiratory:	Provide adequate general ventilation. There is no established limit for PEL or TLV airborne concentration due to the fact that this is a proprietary blend of ingredients. Consider actual use and respect regulatory provisions for dusts. Some type of respiratory protection is recommended. 
Skin and Eye:	Gloves should be worn when exposed to excessive dust. Suitable glove can be recommended by the glove supplier. Where danger of eye contact exists, wear dust resistant safety goggles. 
Engineering Controls:	Local exhaust ventilation and collection systems must be designed and maintained to prevent the accumulation and recirculation of respirable silica dust into the workplace.

SECTION 9- PHYSICAL AND CHEMICAL PROPERTIES

Physical State:	Granular mixture
Color:	Grey to white granular mixture of powders and binders
Water Solubility:	Slightly Soluble
Specific Gravity:	(H ₂ O=1): 3.1 g/cc.
Coefficient of Water/Oil Distribution:	Not Applicable
Vapor Pressure and Density:	Not Applicable
Odor and Odor Threshold:	Earthy, sometimes faint sulfur odor on mixing with water
pH:	7-11
Melting Point/Freezing Point:	>3400 F; >1880 C
Evaporation Rate:	Not Applicable

SECTION 10-STABILITY AND REACTIVITY

Stability:	Stable under normal conditions of use.
Reactivity/ Incompatibility:	NA
Hazardous Polymerization:	Will not occur.
Decomposition Products:	None Expected

SECTION 11- TOXICOLOGICAL INFORMATION

Eye:	Particulate matter may cause physical injury to the eye.
Skin:	Skin irritation is not expected.
Inhalation:	Immediate effects of dust inhalation may include coughing and minor transient respiratory irritation.
Ingestion:	Can cause indigestion or minor irritation.
Chronic:	This product does not contain silica but care should be taken to avoid long term exposure to dust sources of any kind.

SECTION 12- ECOLOGICAL INFORMATION

Accidental Release:	No data available on any adverse effects of this material on the environment.
----------------------------	---

SECTION 13- DISPOSAL CONSIDERATION

Disposal:	Dispose of waste in an approved landfill in accordance with federal, state, and local laws.
------------------	---

SECTION 14 – TRANSPORT INFORMATION

U.S. Department Transportation (DOT)	Not regulated
---	---------------

SECTION 15- REGULATORY INFORMATION

USA Regulations:	<p>EPCRA Section 302 (EHSs): This product does not contain ingredients subject to reporting requirements of 40 CFR Part 355, Appendices A and B (Extremely Hazardous Substances).</p> <p>CERCLA, Section 304: This product does not contain ingredients subject to state and local reporting under Section 304 of SARA Title III as listed in 40 CFR Part 302, Table 302.4</p> <p>SARA 313 REPORTING REQUIREMENTS: This product does not contain ingredients subject to reporting requirements of Section 313 SARA, and Section 6607 of the Pollution Prevention Act.</p> <p>SARA HAZARD CATEGORY: This product does not contain ingredients subject to reporting requirements of the EPA Hazard Categories promulgated under Sections 311 and 312 of the Superfund Amendment and Reauthorization Act of 1986 (SARA Title III).</p> <p>TSCA (Toxic Substances Control Act): All ingredients contained in this product are on the TSCA inventory.</p>
Canada Regulations:	D2A, D2B

SECTION 16- OTHER INFORMATION Rev Date 3/21/13

ACRONYMS USED IN PREPARATION OF MSDS

ACGIH	American Conference of government Industrial Hygienists
CAS #	Chemical Abstract Service
CERCLA	Comprehensive Environmental Response, Compensation and Liability Act
IARC	International Agency for Research on Cancer
lbs./ cu.ft	pound per cubic feet
g/cc	gram per cubic centimeter
mg/m ³	milligrams per cubic meter
mppcf	Million particles per cubic foot
NIOSH	National Institute of Occupational Safety and Health
OSHA	Occupational Safety and Health Administration
PEL	Permissible Exposure Limit (OSHA)
SARA	Superfund Amendments and Reauthorization
Title III	Emergency Planning and Community Right to Know Act
Section 302	Extremely Hazardous Substances
Section 304	Emergency Release
Section 311	Community Right to Know, MSDS List of Chemicals
Section 312	Community Right to Know, Inventories & Locations (Tier I/ Tier II)
Section 313	Toxic Chemicals, toxic Chemicals Release Reporting Form R
TLV	Threshold Limit Values (ACGIH)
TWA	Total Weighted Average

DISCLAIMER

Christy Catalytics, LLC has taken reasonable care preparing these materials and believes the information and recommendations to be accurate as of the date of issue. We make no representation, warranty or guarantee as to its accuracy, reliability or completeness. It is the user's responsibility to satisfy itself as to the suitability and completeness of such information for its own particular use. Christy Catalytics, LLC will not be responsible for any damages of any nature whatsoever resulting from the use of, reliance upon, or the misuse of this information.

This information is supplied to be informative and to alert the user of the material. The ultimate compliance with federal, state, and/or local regulations concerning the use of this material, or compliance with respects to products liability, rest solely upon the purchaser thereof.