

SECTION I: PRODUCT AND COMPANY IDENTIFICATION

Company Name: Christy Catalytics, LLC
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Product Name: PROX-SVERS®: T-22, T-30, T-38, T-46, T-50, T-86, T-99, K-Aggregate
Product Description: Inert catalyst support media
Product Sizes: 1/8", 1/4", 3/8", 1/2", 5/8", 3/4", 1", 1-1/4", 1-1/2", 2" and 3"
Chemical Family: Al₂O₃-SiO₂ (Aluminum Silicate); Al₂O₃ (Aluminum Oxide)

SECTION II: COMPOSITION / INFORMATION ON INGREDIENTS

CHEMICAL NAME	wt. %	C.A.S. #	ACGIH TLV	OSHA PEL
Free Cristobalite	0-10	14464-46-1	0.05 mg/m ³	5/(%SiO ₂ +2)
Free Quartz	0-5	14808-60-7	0.05 mg/m ³	10/(%SiO ₂ +2)
Free Aluminum Oxide	0-99	1344-28-1	10 mg/m ³	15 mg/m ³
Free Titanium Dioxide	0-2	13463-67-7	10 mg/m ³	15 mg/m ³ (total dust)
Calcium Oxide	0-8	1305-78-8	2 mg/m ³	5 mg/m ³

(See Section VI for applicable Health Hazard Information.)
(See Product Data Sheet for specific product information.)

SECTION III: HAZARDS IDENTIFICATIONS

Exposure Limits: See Section II

Acute Effects

Irritancy of Product: Eye contact and inhalation are major routes of entry.

Inhalation: Inhalation of dust can cause irritation.

Skin: Prolonged or repeated skin contact can cause irritation.

Eyes: Contact with eyes can cause irritation, especially when wet.

Ingestion: Not an expected route of entry.

Chronic Effects & Carcinogenicity

T-22, T-30, T-38, T-86, K-Aggregate: Excessive inhalation of dust from these products can cause silicosis. Crystalline silica is listed as an IARC Class 1 potential carcinogen. It has been determined that there is sufficient evidence for the carcinogenicity of crystalline silica to experimental animals and humans. These are chronic, slow developing diseases with symptoms usually delayed 10 years or more.

T-46, T-50 & T-99: These products contain silicates at <1% by weight. Based on the chemistry of bauxite derived products, crystalline silica is not expected to be present in this product. Alumina is a low health risk by inhalation and should be treated as a nuisance dust as specified by ACGIH.

Reproductive effects, Teratogenicity, Mutagenicity: N/Av

Sensitization to Products: N/Av

SECTION IV: FIRST AID MEASURES

First Aid

Inhalation: Move victim to fresh air. If breathing difficulty continues, give oxygen & obtain medical help.

Skin Contact: Wash with soap and warm water. If irritation develops, consult a physician.

Eye Contact: Flush with water for at least 15 minutes. Call physician if irritation persists.

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

Respiratory Protection: Provide adequate general ventilation. Provide workers with NIOSH respirators approved for lung damaging dusts when exposed to dust. Exposure levels over 100 times TLV (Section II) require air supplied respirators.

Skin & Eye Protection: Gloves and safety goggles should be worn when exposed to excessive dust.

Ventilation: Provide local exhaust ventilation to meet exposure limits (Section II).

SECTION V: FIRE FIGHTING MEASURES

Flammability: Non-combustible.	Upper & Lower Flammable Limit: N/Ap
Auto Ignition Temp: N/Ap	Special Fire Fighting Procedures: N/Ap
Combustion Products: N/Ap	Sensitivity to Mechanical Impact/Static Discharge: N/Ap
Means of extinction: Use extinguishing media appropriate for surrounding media.	Flash Point: N/Ap

SECTION VI: ACCIDENTAL RELEASE MEASURES

Spill & Leak: Clean-up personnel need a NIOSH respirator approved for lung damaging dusts. Sweep spills and vacuum where necessary. Avoid generating dust.

SECTION VII: HANDLING AND STORAGE

Handling: Dust in the work area should be kept to minimum and proper ventilation provided. Avoid inhalation of dust. Avoid eye contact with materials.

Storage: No special storage conditions are required.

SECTION VIII: EXPOSURE CONTROLS / PERSONAL PROTECTION

CHEMICAL NAME	ACGIH TLV	OSHA PEL
Free Cristobalite	0.05 mg/m ³	5/(%SiO ₂ +2)
Free Quartz	0.05 mg/m ³	10/(%SiO ₂ +2)
Free Aluminum Oxide	10 mg/m ³	15 mg/m ³
Free Titanium Dioxide	10 mg/m ³	15 mg/m ³ (total dust)
Calcium Oxide	2 mg/m ³	5 mg/m ³

Respiratory Protection: Provide adequate general ventilation. Provide workers with NIOSH respirators approved for lung damaging dusts when exposed to dust. Exposure levels over 100 times TLV (Section II) require air supplied respirators.

Skin & Eye Protection: Gloves and safety goggles should be worn when exposed to excessive dust.

Ventilation: Provide local exhaust ventilation to meet exposure limits (Section II).

SECTION IX: PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Solid spheres	Coefficient of Water/Oil Distribution: N/Ap
Color: Buff, tan or white.	Vapor Pressure & Density: N/Ap
Loose Fill Density: 76 - 120 lbs/cu.ft.	Odor and Odor Threshold: N/Ap
Water Solubility: Insoluble in water	pH: N/Ap
Volatiles, %: N/Ap	Melting/Boiling/Freezing Point: N/Ap
Evaporation Rate: N/Ap	Specific Gravity: N/Av

SECTION X: STABILITY AND REACTIVITY

Stability: Stable under normal conditions of use.	Hazardous Decomposition Products: N/Ap
Conditions of Reactivity: Hazardous polymerization will not occur.	Incompatible Materials: N/Av

SECTION XI: TOXICOLOGICAL INFORMATION

Name of Toxicologically Synergistic Products: N/Av

SECTION XII: ECOLOGICAL INFORMATION

No effects are expected from this material which as supplied is considered "inert".

SECTION XIII: DISPOSAL CONSIDERATIONS

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

SECTION XIV: TRANSPORT INFORMATION

Shipping: No special shipping information is required.

SECTION XV: REGULATORY INFORMATION

California Proposition 65 Warning

All products listed above except T-46, T-50 and T-99 contain crystalline silica, a chemical known to the State of California to cause cancer.

SECTION XVI: OTHER INFORMATION

Abbreviations

N/Av:	not available
N/Ap:	not applicable
IARC:	International Agency for Research on Cancer
ACGIH:	American Conference of Governmental Industrial Hygienists
TLV/TWA:	Threshold Limit Values/Time Weighted Average
NIOSH:	National Institute of Occupational Safety and Health

References

1. ACGIH, Threshold Limit Values and Biological Exposure Indices for 2003.
2. International Agency for Research on Cancer Monographs, Volume 68, 1996
3. Canadian Centre for Occupational Health and Safety. Trade name Database.
4. Material Safety Data Sheets of raw materials.
5. N. Irving Sax. Dangerous Properties of Industrial Materials. Seventh Edition.
6. Business & Legal Reports, Inc.- Book of Chemical Lists, April 1997

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