

GHS COMPLIANT SAFETY DATA SHEET

 TO COMPLY WITH OSHA HAZARD COMMUNICATION STANDARD 29 CFR.1910.1200
 & THE GLOBALLY HARMONIZED SYSTEM OF CLASSIFICATION AND LABELLING OF CHEMICALS



SECTION 1: IDENTIFICATION

PRODUCT NAME	Octaflow ST-70
MFR.'S CODE ID/SYNONYMS	Octaflow ST-70
CAS NUMBER	Mixed (see Sections 3 and 8)
PRODUCT USE	Catalyst
RESTRICTIONS ON USE	For industrial use only
MANUFACTURER/SUPPLIER	Estron Chemical, Inc.
ADDRESS	807 North Main Street, Calvert City, KY 42029 USA
GENERAL INFORMATION	(270) 395-4195
EMERGENCY TELEPHONE	CHEMTREC (800) 424-9300

SECTION 2: HAZARDS IDENTIFICATION
Signal Word: *Warning*
GHS Classification

Physical	Health	Environmental
OSHA Combustible Dust	Skin Irritation – Category 2 Eye Irritation – Category 2A Skin Sensitization– Category 1	Hazardous to the Aquatic Environment, Acute Hazard – Category 3

GHS Label

Symbols: Health Hazard  Exclamation Mark 	
Hazard Statements H315: Causes skin irritation H317: May cause an allergic skin reaction H319: Causes serious eye irritation H402: Harmful to aquatic life May form combustible dust concentrations in air.	Precautionary Statements <i>Prevention</i> P261: Avoid breathing dust/fume/gas/mist/vapours/spray. P264: Wash exposed skin thoroughly after handling. P272: Contaminated work clothing should not be allowed out of the workplace. P273: Avoid release to the environment. P280: Wear protective gloves/protective clothing/eye protection/face protection. <i>Response</i> P302+352: IF ON SKIN: Wash with soap and water. P305+351+338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing. P321: Specific treatment (see supplemental first aid instructions on this label) P333+313: If skin irritation or a rash occurs: Get medical advice/attention. P337+313: If eye irritation persists get medical advice/attention. P362+P364: Take off immediately all contaminated clothing and wash it before reuse. <i>Disposal</i> P501: Dispose of contents/container to an authorized hazardous waste handler.

HAZARDS NOT OTHERWISE CLASSIFIED: OSHA Irritant.

SECTION 3: COMPOSITION/ INFORMATION ON INGREDIENTS

INGREDIENTS	CAS #	%	CLASSIFICATION	H CODES
Stannous Octoate	301-10-0	68 – 72	Skin Irritation – Category 2 Eye Irritation – Category 2A Skin Sensitization – Category 1 Hazardous to the Aquatic Environment, Acute Hazard – Category 3	H315 H319 H317 H402
Silica, Amorphous, Precipitated	112926-00-8	28 – 32	OSHA Combustible Dust (<i>when combined with Stannous Octoate</i>)	<i>None</i>

Contains no detectable crystalline silica (detection limit <0.1% by weight).

(See Section 8 for Exposure Limits)

SECTION 4: FIRST-AID MEASURES

SYMPTOMS OF EXPOSURE

ACUTE Serious eye damage. Skin irritation. Temporary nose or throat irritation.

DELAYED Allergic skin reaction. Stinging, tearing, redness and swelling of the eyes. Coughing or other irritation of the respiratory tract. Dryness, redness or burning of the skin.

INHALATION May cause irritation or asthma-like symptoms. Remove to fresh air. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel.

SKIN CONTACT Causes skin irritation and may cause an allergic skin reaction. Take off immediately all contaminated clothing and wash it before reuse. Contaminated work clothing should not be allowed out of the workplace. Wash exposed skin thoroughly with soap and water for at least 15 minutes. Apply skin lotion or other moisturizing balm to the affected area. If skin irritation or a rash occurs consult a doctor.

EYE CONTACT Causes serious eye irritation. Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing. If eye irritation persists consult a doctor.

INGESTION Ingestion is likely to be harmful or have adverse effects. If ingested, seek medical attention.

SPECIFIC TREATMENT No other specific treatments are known or have been identified.

SECTION 5: FIRE FIGHTING MEASURES

FLAMMABILITY CLASSIFICATION OSHA Combustible Dust

FLAMMABLE LIMITS
LEL: No test data available
UEL: No test data available

HAZARDOUS COMBUSTION PRODUCTS Carbon monoxide, carbon dioxide and tin oxides.

EXTINGUISHING MEDIA Dry Chemical, Water Fog, and CO₂

UNUSUAL FIRE AND EXPLOSION HAZARDS May represent a combustion hazard if dust from this material is allowed to accumulate in the air. Stannous octoate not flammable, but will burn at high temperatures.

SPECIAL FIRE FIGHTING PROCEDURES None known.

SPECIAL PROTECTIVE EQUIPMENT AND PRECAUTIONS FOR FIRE FIGHTERS As in any fire, wear self-contained positive-pressure breathing apparatus, (MSHA/NIOSH approved or equivalent) and full (Bunker) protective gear.

SECTION 6: ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS Avoid contact with skin, eyes and clothing. Ensure adequate ventilation.

PROTECTIVE EQUIPMENT See Personal Protective Equipment in Section 8.

EMERGENCY PROCEDURES Avoid unnecessary exposure to bystanders, prevent contact with open flames or other ignition sources.

ENVIRONMENTAL PRECAUTIONS Obey relevant local, state, provincial and federal laws and regulations. Do not allow the product to enter public drainage systems or open water courses.

METHODS AND MATERIALS FOR CLEANING UP

Avoid creating excessive dust while collecting. Sweep or scoop into a suitable container for disposal

SECTION 7: HANDLING AND STORAGE

PRECAUTIONS FOR SAFE HANDLING Prevent contact with skin and eyes. Avoid inhalation. If necessary, use local ventilation. Handle in accordance with good industrial hygiene and safety practice. Minimize dust generation and accumulation. Routine housekeeping should be instituted to ensure that dusts do not accumulate on surfaces. Dry powders can build static electricity charges when subjected to the friction of transfer and mixing operations. Provide adequate precautions, such as electrical grounding and bonding, or inert atmospheres. Refer to NFPA 654, *Standard for the Prevention of Fire and Dust Explosions from the Manufacturing, Processing and Handling of Combustible Particulate Solids*, for additional information regarding safe handling.

CONDITIONS FOR SAFE STORAGE Store locked up. Keep container tightly closed in a dry and well ventilated place. Best when stored at temperatures controlled to be below 30 °C (85 °F).

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

INGREDIENTS	CAS #	%	ACGIH TLV	OSHA PEL
Stannous Octoate	301-10-0	68 - 72	0.1 mg/m ³	0.1 mg/m ³
Silica, Amorphous	112926-00-8	28 - 32	10 mg/m ³	5 mg/m ³ (<i>Respirable</i>)

APPROPRIATE ENGINEERING CONTROLS Showers and use only outdoors or in a well-ventilated area.

PERSONAL PROTECTIVE EQUIPMENT

EYE/FACE	Safety glasses, goggles or face shield.
SKIN	Impervious protective gloves and clothing as appropriate to prevent skin contact for the exposure activity.
RESPIRATORY	An appropriate, NIOSH approved respirator where exposure limits are exceeded.
HYGIENE MEASURES	Handle in accordance with good industrial hygiene and safety practices. When using, do not eat, drink or smoke. Wash face, hands and any other exposed skin areas before breaks and at the end of work. Wash contaminated clothing before re-use.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE	White powder	ODOR	Very mild, esteric
ODOR THRESHOLD	No test data available	pH	No test data available
MELTING POINT	No test data available	BOILING POINT/RANGE	>200 °C
FLASH POINT	Over 400 °C	EVAPORATION RATE	No test data available
FLAMMABILITY	OSHA Combustible Dust		
FLAMMABLE LIMITS	LOWER No test data available	UPPER	No test data available
VAPOR PRESSURE	No test data available	VAPOR DENSITY	No test data available
RELATIVE DENSITY	1.44-1.52 @ 20 °C	SOLUBILITY IN H₂O	None
PARTITION COEFFICIENT (n-octanol/water)	No test data available	AUTOIGNITION TEMPERATURE	No test data available
DECOMPOSITION TEMPERATURE	> 250 °C	VISCOSITY	Solid material

SECTION 10: STABILITY AND REACTIVITY

REACTIVITY	This product does not pose a significant reactivity hazard when stored appropriately (see Section 7).
STABILITY	This product is stable when stored appropriately (see Section 7).
CONDITIONS TO AVOID	Excessive heat and open flame, direct sunlight, material dust accumulation.
INCOMPATIBLE PRODUCTS	Strong acids, strong bases, strong oxidizers.

HAZARDOUS DECOMPOSITION PRODUCTS Carbon monoxide, carbon dioxide and tin oxides.

POSSIBILITY OF HAZARDOUS REACTIONS Will not occur.

SECTION 11: TOXICOLOGICAL INFORMATION

SYMPTOMS OF EXPOSURE

ACUTE	Serious eye damage. Skin irritation. Temporary nose or throat irritation.
DELAYED	Allergic skin reaction. Stinging, tearing, redness and swelling of the eyes. Coughing or other irritation of the respiratory tract. Dryness, redness or burning of the skin.

ACUTE TOXICITY

INHALATION	May cause irritation or asthma-like symptoms.		
SKIN	Causes skin irritation and may cause an allergic skin reaction.		
EYES	Causes serious eye irritation.		
INGESTION	Ingestion is likely to be harmful or have adverse effects.		
INHALATION TOXICITY	LD ₅₀ Rat	Organotin Silica	No test data available, known irritant Not established
DERMAL TOXICITY	LD ₅₀ Rabbit	Organotin Silica	>2,000 mg/kg Not established
SKIN IRRITATION	Draize, Rabbit, 24 hours	No data available, known irritant for skin and mucous membranes.	
EYE IRRITATION	Draize, Rabbit, 24 hours	No data available, known irritant.	
ORAL TOXICITY	LD ₅₀ Rat	Organotin Silica	No test data available Not established
SENSITIZATION		May cause an allergic skin reaction.	

CHRONIC EFFECTS

CARCINOGENICITY	No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC, ACGIH, NTP or OSHA.
MUTAGENIC EFFECTS	None known
REPRODUCTIVE TOXICITY	None known
TARGET ORGAN EFFECTS	No test data available

SECTION 12: ECOLOGICAL INFORMATION

ECOTOXICITY	Harmful to aquatic life.		
TOXICITY TO FISH	LC ₅₀ <i>Oncorhynchus mykiss</i> (rainbow trout), 96 h	Organotin Silica	> 116 mg/l >10,000 mg/l
TOXICITY TO DAPHNIA	EC ₅₀ <i>Daphnia magna</i> , 24 h	Organotin Silica	56 mg/l >10,000 mg/l
TOXICITY TO ALGAE	EC ₅₀ <i>Pseudokirchneriella subcapitata</i> , 72 h	Organotin Silica	6.9 mg/l Not established
PERSISTANCE AND DEGRADABILITY	Organotin biodegradability >95% (5 days)		
BIOACCUMULATIVE POTENTIAL	No data available		
MOBILITY IN SOIL	No data available		
OTHER ADVERSE EFFECTS	None known.		

SECTION 13: DISPOSAL CONSIDERATIONS

WASTE DISPOSAL

Dispose of in accordance with local, state and federal regulations. This product, as supplied, is not a hazardous waste according to Federal regulations (40 CFR 261). This product could become a hazardous waste, if chemical additions are made or if the product is processed or otherwise altered. Consult 40 CFR 261 to determine whether the altered material is a hazardous waste.

US EPA WASTE NUMBER & DESCRIPTION No information available

SECTION 14: TRANSPORT INFORMATION

This section provides basic shipping classification information. Refer to appropriate transportation regulations for specific requirements.

DOT	Not regulated	TDG	Not regulated	MEX	Not regulated
ICAO	Not regulated	IATA	Not regulated	IMDG/IMO	Not regulated
RID	Not regulated	ADR	Not regulated	ADN	Not regulated

SECTION 15: REGULATORY INFORMATION

The components in this product are either listed or exempt from listing due to polymer exemption criteria for the following chemical listing inventories as indicated by an "X":

AICS	Australian Inventory of Chemical Substances	X
DSL	Canadian Domestic Substances List	X
ECL	Korean Existing Chemicals List	X
ECN	Taiwan Chemical Substances List	X
ELINCS	European List of Notified Chemical Substances	
ENCS	Japanese Existing and New Chemical Substances	X
IECSC	Inventory of Existing Chemical Substances in China	X
ISRAEL	Proposed Israel Hazardous Substances List	
NDSL	Canadian Non-Domestic Substances List	
NZIoC	New Zealand Inventory of Chemicals	X
PICCS	Philippines Inventory of Chemicals and Chemical Substances	X
SWISS	Giftelist 1 and Inventory of Notified New Substances	X
TSCA	US Toxic Substances Control Act	X

INTERNATIONAL REGULATIONS

EU REGULATION (EC) No. 1907/2006 (REACH) Annex XIV - List of substances subject to authorization, *Substances of Very High Concern*: This product does not contain any SVHC listed substances.

C.D. 96/82/EC Council Directive 96/82/EC, Annex I not mentioned by name. With regard to possibly appropriate decomposition products see Chapter 10.

FEDERAL REGULATIONS

SARA 313 This product does not contain any chemicals which are subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355).

SARA Section 311/312 (40 CFR 370) Hazard Categories

Acute Health Hazard	Yes
Chronic Health Hazard	Yes
Fire Hazard	Yes
Pressure Hazard	No
Reactivity Hazard	No

CERCLA This product, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional or state level pertaining to releases of this product.

CLEAN WATER ACT This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

CLEAN AIR ACT This product does not contain any substances regulated as hazardous air pollutants (HAPS under Section 112 of the Clean Air Act Amendments of 1990).

U.S. STATE REGULATIONS

RIGHT TO KNOW The Listing requirements of the Right to Know (RTK) legislation varies by state. All information for NJ, PA, MA and other states can be derived from the listing of hazardous and non-hazardous components in Sections 2 and 15 of this Safety Data Sheet.

CALIFORNIA PROP 65 This product does not contain any substances known to the state of California to cause cancer and/or reproductive toxicity.

SECTION 16: OTHER INFORMATION

DISCLAIMER This product is intended for industrial use only and should be used in accordance with the manufacturer's recommendations. Some of the information presented and conclusions drawn herein are from sources other than direct test data on the product itself. The information in this SDS was obtained from sources which we believe are reliable. However, the information is provided without any warranty, express or implied, regarding its correctness. The conditions or methods of handling, storage, use and disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product. This SDS was prepared and is to be used only for this product. If the product is used as a component in another product, this SDS information may not be applicable. This SDS has been prepared in accordance with the requirements of the OSHA Hazard Communication Standard (29 CFR 1910.1200).

DATE OF REVISION December 19, 2016, *replaces the January 26, 2016 version.*

REASON FOR REVISION Revised the Restrictions on Use in Section 1. Revised the Conditions for Safe Handling and Safe Storage in Section 7 to advise for controlled temperature storage.

SDS PREPARED BY Glen Pearson

SDS APPROVED BY Robert Auerbach