

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	Escat ST-70
MFR.'S CODE ID/SYNONYMS	Escat ST-70, Octaflow ST-70
CAS NUMBER	Mixed (<i>see Sections 3 and 8</i>)
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: *Danger*

GHS Classification

Physical	Health	Environmental
OSHA Combustible Dust	Eye Damage/Irritation – Category 1 Skin Sensitization – Category 1 Toxic to Reproduction – Category 1B	Hazardous to the Aquatic Environment, Acute Hazard – Category 2 Hazardous to the Aquatic Environment, Chronic Hazard – Category 2

GHS Label

Symbols: Corrosion  Health Hazard  Exclamation Mark  Environment 	
Hazard Statements H317: May cause an allergic skin reaction H318: Causes serious eye damage H360D: May damage the unborn child H411: Toxic to aquatic life with long lasting effects May form combustible dust concentrations in air.	Precautionary Statements <i>Prevention</i> P201: Obtain special instructions before use. P202: Do not handle until all safety precautions have been read and understood. P261: Avoid breathing dust/fume/gas/mist/vapours/spray. 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+P310: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing. Immediately call a POISON CENTER or doctor/physician. P308+313: IF exposed or concerned: Get medical advice/attention. P321: Specific treatment (see supplemental first aid instructions on this label) P333+313: If skin irritation or a rash occurs: Get medical advice/attention. P362+P364: Take off immediately all contaminated clothing and wash it before reuse. <i>Storage</i> P405: Store locked up. <i>Disposal</i> P501: Dispose of contents/container to an authorized hazardous waste handler.

HAZARDS NOT OTHERWISE CLASSIFIED: None identified.

SECTION 3: COMPOSITION/ INFORMATION ON INGREDIENTS

INGREDIENTS	CAS #	%	CLASSIFICATION	H CODES
Stannous Octoate [Hexanoic acid, 2-ethyl-, tin(2+) salt (2:1)]	301-10-0	68 – 72	Eye Damage/Irritation – Category 1 Skin Sensitization – Category 1 Toxic to Reproduction – Category 1B Hazardous to the Aquatic Environment, Acute Hazard – Category 2 Hazardous to the Aquatic Environment, Chronic Hazard – Category 2	H318 H317 H360D H401 H411
Silica, Amorphous, Precipitated	112926-00-8	28 – 32	OSHA Combustible Dust (<i>when combined with Stannous Octoate</i>)	None

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 or allergic reaction. 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	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 damage. Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing.
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 CO ₂
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	Wear protective gloves/protective clothing/eye protection/face protection. 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	Store locked up. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. 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, <i>Standard for the Prevention of Fire and Dust Explosions from the Manufacturing, Processing and Handling of Combustible Particulate Solids</i> , 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 H ₂ O	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 or allergic reaction. 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	May cause an allergic skin reaction.		
EYES	Causes serious eye damage.		
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	5,870 mg/kg 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	May damage the unborn child		
TARGET ORGAN EFFECTS	No test data available		

SECTION 12: ECOLOGICAL INFORMATION

ECOTOXICITY	Toxic to aquatic life with long lasting effects.		
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	> 100 mg/l >10,000 mg/l

TOXICITY TO ALGAE	EC ₅₀ <i>Pseudokirchneriella subcapitata</i> , 72 h	Organotin	6.9 mg/l
		Silica	Not established

PERSISTENCE AND DEGRADABILITY Organotin biodegradability >95% (5 days)

BIOACCUMULATIVE POTENTIAL Organotin n/octanol/water (log K_{OW}) = 2.64

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":

AIIC	Australian Inventory of Industrial Chemicals	X
DSL	Canadian Domestic Substances List	X
ECL	Korean Existing Chemicals List	X
ENCS	Japanese Existing and New Chemical Substances	X
IECSC	Inventory of Existing Chemical Substances in China	X
INSQ	National Inventory of Chemical Substances in Mexico	X
NDSL	Canadian Non-Domestic Substances List	
NZIoC	New Zealand Inventory of Chemicals	X
PICCS	Philippines Inventory of Chemicals and Chemical Substances	X
TCSI	Taiwan Chemical Substances List	X
TSCA	US Toxic Substances Control Act	X
VNECI	Vietnam National Existing Chemical Inventory	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.

REACH One or more components of this product are not REACH registered. Import quantities may be subject to limitation.

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.

WHMIS Class D Division 2 Subdivision B – Toxic material causing other toxic effects.

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.

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 June 22, 2026, *replaces the February 16, 2023 version.*

REASON FOR REVISION Updated the hazard information throughout based on the latest supplier information.

SDS PREPARED BY Glen Pearson

SDS APPROVED BY Robert Auerbach