

**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 110
MFR.'S CODE ID/SYNONYMS	Escat 110
CAS NUMBER	36947-68-9
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
<i>None</i>	Acute Toxicity (Oral, Inhalation) – Category 4 Skin Corrosion/Irritation – Category 2 Eye Damage/Irritation – Category 2A Specific Target Organ Toxicity, Single Exposure – Category 3	<i>None</i>

**GHS Label**

<b>Symbols:</b> Exclamation Point 	
<b>Hazard Statements</b> H302: Harmful if swallowed H315: Causes skin irritation H319: Causes serious eye irritation H332: Harmful if inhaled H335: May cause respiratory irritation	<b>Precautionary Statements</b> <i>Prevention</i> P261: Avoid breathing dust/fume/gas/mist/vapours/spray. P264: Wash exposed skin thoroughly after handling. P270: Do not eat, drink or smoke when using this product. P271: Use only outdoors or in a well-ventilated area. P280: Wear protective gloves/protective clothing/eye protection/face protection. <i>Response</i> P301+312+330: IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell. Rinse mouth. P302+352: IF ON SKIN: Wash with soap and water. P304+340: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. P305+351+338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing. P312: Call a POISON CENTER or doctor/physician if you feel unwell. P321: Specific treatment (see supplemental first aid instructions on this label) P332+313: If skin irritation 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.

	<p><i>Storage</i> P403+233: Store in a well ventilated place. Keep container tightly closed. P405: Store locked up.</p> <p><i>Disposal</i> P501: Dispose of contents/container to an authorized hazardous waste handler.</p>
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**SECTION 3: COMPOSITION/ INFORMATION ON INGREDIENTS**

HAZARDOUS INGREDIENTS	CAS #	%	CLASSIFICATION	H Codes
2-Isopropylimidazole	36947-68-9	100	Acute Toxicity (Oral, Inhalation) – Category 4 Skin Corrosion/Irritation – Category 2 Eye Damage/Irritation – Category 2A Specific Target Organ Toxicity, Single Exposure – Category 3A	H302, H332 H315 H319 H335

(See Section 8 for Exposure Limits)

**SECTION 4: FIRST-AID MEASURES**

SYMPTOMS OF EXPOSURE

ACUTE	Skin, eye, nose or throat irritation.
DELAYED	Stinging, tearing, redness and swelling of the eyes. Coughing or other irritation of the respiratory tract. Dryness, itching, redness, blistering or burning of the skin.
INHALATION	May cause respiratory irritation. Remove victim to fresh air and keep at rest in a position comfortable for breathing.
SKIN CONTACT	Causes skin irritation. Take off immediately all contaminated clothing and wash it before reuse. Wash thoroughly with soap and water. If skin irritation persists 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 get medical advice/attention.
INGESTION	If ingested, call a POISON CENTER or doctor/physician if you feel unwell. Rinse mouth.
SPECIFIC TREATMENT	No other specific treatments are known or have been identified.

**SECTION 5: FIRE FIGHTING MEASURES**

FLAMMABILITY CLASSIFICATION	Not flammable
FLAMMABLE LIMITS	No test data available
HAZARDOUS COMBUSTION PRODUCTS	Carbon monoxide, carbon dioxide and nitrogen oxides.
EXTINGUISHING MEDIA	Dry Chemical, Water Fog, Alcohol Resistant Foam
UNUSUAL FIRE AND EXPLOSION HAZARDS	None known.
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	Prevent contact with skin, eyes and clothing.
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.

CONDITIONS FOR SAFE STORAGE Store in cool areas. Keep containers closed. The product shelf life is two years from date of manufacture in an unopened container stored at 20 °C.

## **SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

INGREDIENTS	CAS #	%	ACGIH TLV	OSHA PEL
2-Isopropylimidazole	36947-68-9	100	<i>None established</i>	<i>None established</i>

APPROPRIATE ENGINEERING CONTROLS None required.

### PERSONAL PROTECTIVE EQUIPMENT

EYE/FACE Safety glasses or goggles.

SKIN Impervious protective gloves and clothing as appropriate to avoid skin contact.

RESPIRATORY An appropriate NIOSH approved respirator for Dust.

HYGIENE MEASURES Handle in accordance with good industrial hygiene and safety practices. When using, do not eat, drink or smoke. Wash face and hands before breaks and at the end of work. Wash contaminated clothing before re-use.

## **SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

APPEARANCE	White to yellow powder	ODOR	Mild, acrid
ODOR THRESHOLD	No test data available	pH	No test data available
MELTING POINT	130 °C (266 °F)	BOILING POINT/RANGE	257 °C (495 °F)
FLASH POINT	Not applicable	EVAPORATION RATE	No test data available
FLAMMABILITY	Not flammable		
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	1.33 @ 20 °C	SOLUBILITY IN H <sub>2</sub> O	No test data available
PARTITION COEFFICIENT (n-octanol/water)	No test data available	AUTOIGNITION TEMPERATURE	No test data available
DECOMPOSITION TEMPERATURE	No test data available	VISCOSITY	No test data available
% VOLATILE	2 Maximum	SOFTENING POINT	No test data available

## **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.

INCOMPATIBLE PRODUCTS Strong oxidizing or reducing agents.

HAZARDOUS DECOMPOSITION PRODUCTS Carbon dioxide and carbon monoxide.

POSSIBILITY OF HAZARDOUS REACTIONS Will not occur

## **SECTION 11: TOXICOLOGICAL INFORMATION**

### SYMPTOMS OF EXPOSURE

ACUTE Skin, eye, nose or throat irritation.

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

<b>ACUTE TOXICITY</b>				
INHALATION	May cause respiratory irritation.			
SKIN	Causes skin irritation.			
EYES	Causes serious eye irritation.			
INGESTION	Not likely to have harmful effects in normal exposures, may cause nausea or gastric distress if ingested in quantity.			
INHALATION TOXICITY	LC <sub>50</sub> Rat	Imidazole	No data available	
DERMAL TOXICITY	LD <sub>50</sub> Rabbit	Imidazole	No data available	
SKIN IRRITATION	Draize, Rabbit, 24 hours	Imidazole	No data available	Known irritant
EYE IRRITATION	Draize, Rabbit, 24 hours	Imidazole	No data available	Known irritant
ORAL TOXICITY	LD <sub>50</sub> Rat	Imidazole	832 mg/kg	
SENSITIZATION	Draize, Rabbit		No data available	
<b>CHRONIC EFFECTS</b>				
CARCINOGENICITY			Not listed as a carcinogen by ACGIH, IARC, NTP, or CA Prop 65	
MUTAGENIC EFFECTS			None known	
REPRODUCTIVE TOXICITY			None known	
TARGET ORGAN EFFECTS			None known	

**SECTION 12: ECOLOGICAL INFORMATION**

ECOTOXICITY	Not known to be harmful to aquatic life.			
TOXICITY TO FISH	LC <sub>50</sub> Brachydanio rerio, 96 h	Imidazole	No data available	
TOXICITY TO DAPHNIA	EC <sub>50</sub> Daphnia magna, 24 h	Imidazole	No data available	
PERSISTANCE AND DEGRADABILITY	No data available			
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":

AIIC	Australian Inventory of Industrial Chemicals	
DSL	Canadian Domestic Substances List	
ECL	Korean Existing Chemicals List	
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	
NDSL	Canadian Non-Domestic Substances List	X
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, <i>Substances of Very High Concern</i> : 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.

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

Acute Health Hazard	Yes
Chronic Health Hazard	No
Fire Hazard	No
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.
OTHER FEDERAL	This product contains amorphous silica. A new CAS# 112926-00-8 has been assigned to Amorphous Precipitated Silica to distinguish it from the crystalline. According to EPA this product meets TSCA requirements and is listed on the TSCA Inventory as Silica CAS# 7631-86-9.

### 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.
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CALIFORNIA PROP 65      No substances known to the state of California to cause cancer and/or reproductive toxicity were intentionally added to this product; however, this product may contain unknown trace amounts of 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**              June 19, 2023, *replaces the September 27, 2021 version.*

**REASON FOR REVISION**      Updated Registry Listings in Section 15.

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**SDS APPROVED BY**              Robert Auerbach