

**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

	<p>reuse.</p> <p><i>Storage</i></p> <p>P403+233: Store in a well ventilated place. Keep container tightly closed.</p> <p>P405: Store locked up.</p> <p><i>Disposal</i></p> <p>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.

### **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 flakes	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

#### ACUTE TOXICITY

INHALATION      May cause respiratory irritation.

SKIN      Causes skin irritation.

EYES      Causes serious eye irritation.



AICS	Australian Inventory of Chemical Substances	
DSL	Canadian Domestic Substances List	
ECL	Korean Existing Chemicals List	
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	X
NZIoC	New Zealand Inventory of Chemicals	X
PICCS	Philippines Inventory of Chemicals and Chemical Substances	X
SWISS	Giftliste 1 and Inventory of Notified New Substances	X
TCSI	Taiwan Chemical Substances List	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.

REACH This product is not REACH registered, and EU import volumes may be restricted.

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	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.

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** April 23, 2018, *replaces the July 9, 2014 version.*

**REASON FOR REVISION** Changed from Roman numerals to Arabic numerals throughout. Added Restrictions on Use in Section 1. Removed Combustible Dust Hazard and added Acute Toxicity warnings based on the latest supplier information in Sections 2, 3, 4 and 11. Added Hazards for Components and H Codes to Section 3. Changed ECN to TCSI, added Acute warning for SARA Section 311/312, and updated the REACH information in Section 15.

**SDS PREPARED BY** Glen Pearson

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