

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 50
MFR.'S CODE ID/SYNONYMS	Escat 50
CAS NUMBER	Mixture (<i>see Sections 3 or 8</i>)
PRODUCT USE	Catalyst for powder coatings
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	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

Symbols: Exclamation Point 	
Hazard Statements H302: Harmful if swallowed H315: Causes skin irritation H319: Causes serious eye irritation H332: Harmful if inhaled H335: May cause respiratory irritation 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. 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>
--	--

HAZARDS NOT OTHERWISE CLASSIFIED: None identified.

SECTION 3: COMPOSITION/ INFORMATION ON INGREDIENTS

HAZARDOUS INGREDIENTS	CAS #	%	CLASSIFICATION	H Codes
2-Isopropylimidazole	36947-68-9	48 – 52	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
Castor Wax	8001-78-3	48 – 52	OSHA Combustible Dust	None

(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	OSHA Combustible Dust
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	May represent a combustion hazard if dust from this material is allowed to accumulate in the air.
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 Do not allow dust to concentrate in the air from handling. 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 safe handling.

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	48 – 52	None established	None established
Castor Wax	8001-78-3	48 – 52	10mg/m ³	15 mg/m ³

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	Tan to brown granules	ODOR	Mild, acrid
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 200 °F	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	0.94 @ 20 °C	SOLUBILITY IN H ₂ O	No test data available
PARTITION COEFFICIENT (n-octanol/water)	No test data available	AUTOIGNITION TEMPERATURE	No test data available
DECOMPOSITION TEMPERATURE	> 250 °C	VISCOSITY	No test data available
% VOLATILE	2 Maximum	SOFTENING POINT	72 – 90 °C

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, material dust accumulation.

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.

ACUTE TOXICITY

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 ₅₀ Rat	Imidazole Castor Wax	No data available No data available	
DERMAL TOXICITY	LD ₅₀ Rabbit	Imidazole Castor Wax	No data available No data available	
SKIN IRRITATION	Draize, Rabbit, 24 hours	Imidazole Castor Wax	No data available No data available	Known irritant Known irritant
EYE IRRITATION	Draize, Rabbit, 24 hours	Imidazole Castor Wax	No data available No data available	Known irritant Known irritant
ORAL TOXICITY	LD ₅₀ Rat	Imidazole Castor Wax	832 mg/kg >10 gm/kg	
SENSITIZATION	Draize, Rabbit		No data available	

CHRONIC EFFECTS

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 ₅₀ Brachydanio rerio, 96 h	Imidazole Castor Wax	No data available >10,000 mg/l
TOXICITY TO DAPHNIA	EC ₅₀ Daphnia magna, 24 h	Imidazole Castor Wax	No data available 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":

Acronym	Inventory Name	Substituted imidazole	Castor Wax
AICS	Australian Inventory of Chemical Substances		X
DSL	Canadian Domestic Substances List		X
ECL	Korean Existing Chemicals List		X
ELINCS	European List of Notified Chemical Substances		
ENCS	Japanese Existing and New Chemical Substances	X	X
IECSC	Inventory of Existing Chemical Substances in China	X	X
ISRAEL	Proposed Israel Hazardous Substances List		
NDSL	Canadian Non-Domestic Substances List	X	
NZIoC	New Zealand Inventory of Chemicals	X	X
PICCS	Philippines Inventory of Chemicals and Chemical Substances	X	X
SWISS	Giftliste 1 and Inventory of Notified New Substances	X	
TCSI	Taiwan Chemical Substances List	X	X
TSCA	US Toxic Substances Control Act	X	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	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.
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, <i>replaces August 8, 2016 version</i>
REASON FOR REVISION	Added Acute Toxicity warnings based on the latest supplier information in Sections 2, 3, 4 and 11. 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
SDS APPROVED BY	Robert Auerbach