



SAFETY DATA SHEET

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SECTION 1 PRODUCT AND COMPANY INFORMATION

PRODUCT NAME: **Tin (II) 2-ethylhexanoate**

PRODUCT NUMBER: 3655

CAS NUMBER: 301-10-0

SYNONYMS: 2-Ethylcaproic acid, tin salt in 2-Ethylcaproic acid, stannous octoate, stannous 2-ethylhexanoate, 2-Ethylhexanoic acid tin (II) salt, tin (II) bis(2-ethylhexanoate)

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SECTION 2 HAZARDS IDENTIFICATION

CLASSIFICATION OF SUBSTANCE OR MIXTURE

Pictogram



Signal Word

Warning

Hazard Statements

H315	Causes skin irritation.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
H361	Suspected of damaging fertility or the unborn child.

Precautionary Phrases

P261	Avoid breathing dust/fume/gas/mist/vapors/spray.
P264	Wash skin thoroughly after handling.
P271	Use only outdoors or in a well-ventilated area.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P302+P352	IF ON SKIN: Wash with plenty of soap and water.
P304+P340	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P305+P351+P338	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.
P362	Take off contaminated clothing and wash before reuse.
P403+P233	Store in a well-ventilated place.

SECTION 2 HAZARDS IDENTIFICATION (Cont.)

HMIS CLASSIFICATION:

Health: 2 Fire: 1 Reactivity Hazard: 0

NFPA RATING:

Health: 2 Flammability: 1 Reactivity Hazard: 0

EYE CONTACT: May cause severe burns to the eyes.

SKIN CONTACT: May cause moderate to severe irritation of the skin. Heavy exposure to the skin has been lethal in some animal studies.

INHALATION: Vapor may severely irritate the nose, mucous membranes, and respiratory tract.

INGESTION: May be harmful if swallowed.

SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

Formula: $\text{Sn}(\text{OOC}\text{C}_7\text{H}_{15})_2$

Molecular Weight: 405.12

CHEMICAL NAME	CAS#	%
Tin (II) 2-ethylhexanoate	301-10-0	100

SECTION 4 FIRST AID MEASURES

EYE EXPOSURE: Immediately flush the eyes with copious amounts of water for at least 15 minutes. Assure flushing under eyelids. A victim may need assistance in keeping their eyelids open. Get immediate competent medical attention.

SKIN EXPOSURE: Wash affected area with water. Remove contaminated clothes if necessary. Seek medical assistance if irritation persists.

INHALATION: Remove to fresh air and keep at rest. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Get medical attention if necessary.

INGESTION: Do NOT induce vomiting. Never give anything by mouth to an unconscious person. If conscious, wash out mouth with water. Get medical attention if necessary.

SECTION 5 FIREFIGHTING MEASURES

FLASH POINT: 110°C – Closed Cup

AUTO IGNITION TEMPERATURE: Not available

EXPLOSION LIMITS: Not available

EXTINGUISHING MEDIUM: Carbon dioxide, dry powder, or foam.

SPECIAL FIRE FIGHTING PROCEDURES: Wear self-contained, approved breathing apparatus and full protective clothing, including eye protection and boots.

HAZARDOUS COMBUSTION AND DECOMPOSITION PRODUCTS: Tin oxides and carbon oxides

SECTION 6 ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS: Wear all appropriate equipment when using this material. Ensure adequate ventilation.

ENVIRONMENTAL PRECAUTIONS: Prevent spillage from entering drains or allowing to be released into the environment.

METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING UP: Eliminate all ignition sources. Small spills may be absorbed into diatomaceous earth, sand, or other suitable absorbent, and swept up.

SECTION 7 HANDLING AND STORAGE

PRECAUTIONS FOR SAFE HANDLING: Wear appropriate personal protective equipment. Use with adequate ventilation. Wash thoroughly after using. Keep container closed when not in use. Avoid formation of dusts and aerosols. Open and handle container with care.

CONDITIONS FOR SAFE STORAGE: Store in cool, dry, and well-ventilated area. Keep away from heat and moisture.

SECTION 8 EXPOSURE CONTROLS AND PERSONAL PROTECTION

EXPOSURE CONTROLS

Component	Exposure Limits	Basis	Entity
Tin (II) 2-ethylhexanoate	0.1 mg/m ³	TLV	ACGIH
	0.2 mg/m ³	STEL	ACGIH
	0.1 mg/m ³	PEL	OSHA
	0.1 mg/m ³	REL	NIOSH

STEL: Short Term Exposure Limit during x minutes.

TLV: Threshold Limit Value over 8 hours of work.

REL: Recommended Exposure Limit

PEL: Permissible Exposure Limit

EYE PROTECTION: Wear chemical safety glasses or goggles.

SKIN PROTECTION: Wear nitrile or rubber gloves, apron, or lab coat.

VENTILATION: Provide local exhaust, preferably mechanical.

RESPIRATOR: Use an approved respirator.

ADDITIONAL PROTECTION: Provide eyewash stations, quick-drench showers and washing facilities accessible to areas of use and handling.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

COLOR AND FORM: Colorless to pale yellow viscous liquid

ODOR: Not available

MOLECULAR WEIGHT: 405.12

BOILING POINT: Not available

MELTING POINT: Not available

SPECIFIC GRAVITY: 1.251 gm/ml

VAPOR DENSITY: No data available

SOLUBILITY: Insoluble

SECTION 10 STABILITY AND REACTIVITY

STABILITY: Stable

HAZARDOUS POLYMERIZATION: Will not occur

CONDITIONS TO AVOID: Not available

INCOMPATIBILITY: Strong oxidizing agents and bases

DECOMPOSITION PRODUCTS: Tin oxides and carbon oxides

SECTION 11 TOXICOLOGICAL DATA

ACUTE TOXICITY: LD50 Oral – rat – 3,400 mg/kg. LD50 Dermal – rabbit - >2,000 mg/kg (LD50 Oral – rat – 1600 mg/kg. LD50 Dermal – rabbit – 1,142mg/kg), Draize Test Eye – Rabbit – 20mg – Severe irritation, LD50 Oral – rat – 3g/kg, LC Inhalation – rat - >400 ppm – 6h. LD50 Skin – Rabbit – 1,260µL/kg, TDLo Oral – rat – 8,800 mg/kg – 2w, Somnolenc Oral – rat – 1,803 mg/kg (Developmental abnormalities).

CARCINOGENIC EFFECTS: No components of this product present at levels greater than or equal to 0.1% is identified a carcinogen.

MUTAGENIC EFFECTS: The registry of toxic effects of chemical substances (RTECS) contains mutation data for components in this product.

TETRATOGENIC EFFECTS: Not available

RTECS: MO7870000

To the best of our knowledge the toxicological effects of this compound have not been fully investigated.

SECTION 12 ECOLOGICAL DATA

AQUATIC VERTEBRATE: LC50 – Oncorhynchus mykiss (rainbow trout) - <116mg/L – 96h.

AQUATIC INVERTEBRATE: Not available

TERRESTRIAL: EC50 – Pseudokirchneriella subcapitata (green algae) – 6.9mg/l – 72h

SECTION 13 DISPOSAL CONSIDERATIONS

Dispose of in according to local, state, and federal regulations.

SECTION 14 TRANSPORTATION DATA

Not a dangerous good.

SECTION 15 REGULATORY INFORMATION

TSCA: Listed in the TSCA inventory

DSCL (EEC): Listed on the DSCL inventory

SARA 302/304: Not Listed

SARA 311/312: Acute Health Hazard

SARA (TITLE 313): Not Listed

CALIFORNIA PROP. 65: Not Listed

WHMIS CANADA: Not Listed

SECTION 16 OTHER INFORMATION

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