1. PRODUCT AND COMPANY IDENTIFICATION

Trade Name: Indium Acetate

Chemical Formula: $In(C_2H_3O_2)_3$

Manufacturer Item Number: IN-2200

Manufacturer:
Lorad Chemical Corporation
1200 19th Street North
Saint Petersburg, Florida, 33713
United States of America

Telephone: +1 (727) 826–5511

Fax: +1 (727) 826–5510

Emergency Contact:
(800) 255–3924 (US & Canada)
+1 (813) 248–0573 (International)

2. HAZARD IDENTIFICATION

Signal Word: Warning

Pictograms:

Hazard Statements:
H315 Causes skin irritation.
H319 Causes serious eye irritation.
H335 May cause respiratory irritation.

Precautionary Statements:
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 / eye protection / face protection.
P302+352 IF ON SKIN: Wash with plenty of 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 / physician if you feel unwell.
P332+313 If skin irritation occurs: Get medical advice / attention.
P337+313 If eye irritation persists: Get medical advice / attention.
P362 Take off contaminated clothing and wash before reuse.
P403+233 Store in a well-ventilated place. Keep container tightly closed.
P405 Store locked up.
P501 Dispose of contents / container to an approved waste disposal plant.

HMIS Health Ratings (0-4)
- Health: 2
- Flammability: 0
- Physical: 0

3. COMPOSITION

Additional Names: Indium(III) Acetate; Indium Triacetate

Percentage:	100 wt%
CAS #:	25114-58-3
EC #:	629-609-5

4. FIRST AID PROCEDURES

General Treatment	Consult a physician. Show this SDS to the doctor in attendance. Move out of dangerous area.
Special Treatment:	No Data Available.
Important Symptoms:	No Data Available.
Inhalation:	If breathing, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
Ingestion:	Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.
Skin:	Wash off with soap and plenty of water. Consult a physician.
Eyes:	Immediately flush eyes with fresh water for at least 15 minutes while holding the eyelids open. Remove contact lenses if worn. Consult a physician.

5. FIREFIGHTING MEASURES

Flammability:	Not Flammable.
Special Hazards from Substance:	No Data Available.
Extinguishing Media:	Use water spray, alcohol-resistant foam, dry chemical, or carbon dioxide.
Special Fire Fighting Procedures:	Wear self-contained breathing apparatus for firefighting if necessary.

6. ACCIDENTAL RELEASE MEASURES

If Material is Released / Spilled:	Wear appropriate respiratory and protective equipment specified in special protection information. Avoid dust formation. Avoid breathing dust, vapors, mist, or gas. Isolate spill area and provide ventilation. Evacuate personnel to safe areas. Pick up and arrange disposal without creating dust. Sweep up and shovel. Do not flush with water. Keep in suitable closed containers for disposal.
Environmental Precautions:	Prevent further leakage or spills if safe to do so. Do not allow to enter drains, sewers, or watercourses.

7. HANDLING AND STORAGE

Handling Conditions:	Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Normal measures for preventive fire protection.
Storage Conditions:	Keep container tightly closed in a dry and well-ventilated place. Material is hygroscopic.
Work / Hygienic Maintenance:	Do not use tobacco or food in work area. Wash thoroughly before eating and smoking. Do not blow dust off clothing or skin with compressed air.
Ventilation:	Provide appropriate exhaust ventilation at places where dust is formed.

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

Permissible Exposure Limits:

Authority	Basis	Limit	Remarks
OSHA	PEL	0.1 mg/m³	Indium compounds (as In)
California	PEL	0.1 mg/m³	Indium compounds - California permissible exposure limit for chemical contaminants (Title 8, Article 107)

Threshold Limit Value:

Authority	Basis	Limit	Remarks
ACGIH	TLV	0.1 mg/m³	8-hour total weighted average.
NOISH	REL	0.1 mg/m³	Up to 10-hour total weighted average.

Special Equipment: No Data Available.

Respiratory Protection: For nuisance exposures use type P95 (US) or type P1 (EU EN 143) particle respirator. For higher level protection use type OV/AG/P99 (US) or type ABEK-P2 (EU EN 143) respirator cartridges. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Protective Gloves: Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching the glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Eye Protection: Safety glasses with side shields or goggles. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166 (EU).

Body Protection: Wear appropriate protective clothing. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

9. PHYSICAL AND CHEMICAL CHARACTERISTICS

Color:	White	**Molecular Weight:**	291.95 g/mol
Forms:	Powder	**Density:**	No Data Available.
Odor:	No Data Available.	**pH:**	No Data Available.
Water Solubility:	No Data Available.	**Auto-Ignition Temperature:**	No Data Available.
Boiling Point:	No Data Available.	**Evaporation Rate:**	No Data Available.
Melting Point / Freezing Point:	> 270°C (> 518°F)	**Flammability or Explosive Limits:**	No Data Available.
Vapor Pressure:	No Data Available.	**Partition Coefficient: n-octanol/ water**	No Data Available.
Vapor Density:	No Data Available.	**Decomposition Temperature:**	No Data Available.
Flash Point:	No Data Available.	**Viscosity:**	No Data Available.

10. REACTIVITY

Stability: Stable under recommended storage conditions.

Reacts with: Strong oxidizing agents

Incompatible Conditions: No Data Available.

Hazardous Decomposition Products: May form carbon oxides and / or indium / indium oxides under fire conditions.

11. TOXICOLOGICAL INFORMATION

Potential Health Effects:

Eyes: May cause irritation and eye damage.

Skin: Inflammation, irritation.

Ingestion: Indium is poorly absorbed from the gut, but accumulation in the liver occurs when indium compounds are injected. Exposure to high levels may damage the kidneys and liver.

Inhalation: May cause irritation of the lungs. May cause tooth decay, joint and bone pain, disorders in the nervous and gastrointestinal systems, heart pains, and general debility. Swelling of the lungs is common although scarring is rarely seen.

Chronic: Long term exposure to respiratory irritants may result in disease of the airways involving difficulty breathing and related systemic problems. Exposure to high dust concentrations may cause changes in lung function, i.e. pneumoconiosis, caused by particles less than 0.5 microns penetrating and remaining in the lung. Primary symptoms include breathlessness and lung shadows on x-ray. Chronic Indium intoxication leads to weight loss, poor growth, and extensive necrotic damage to the liver and kidneys. Indium can impede protein synthesis, thereby affecting numerous essential physiological processes, including detoxification of organic carcinogens. Intravenous indium chloride exposure to mice had a toxic effect on the kidney and resulted in necrosis of the liver. Damage to the brain, heart, adrenals, spleen, and blood may also result from chronic exposure.

Signs and Symptoms: Indium poisoning may include loss of appetite, nose bleed, paralysis of limbs, rapid breathing, twitching, convulsions, and tissue death of the liver and kidneys.

Aggravate Medical Conditions: Contact with skin may accentuate any pre-existing dermatitis. Inhalation of dust may incur further disability for persons with impaired respiratory function. Indium and indium compounds may damage the developing fetus.

Median Lethal Dose: No Data Available.

Carcinogen:

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable or confirmed human carcinogen by IARC.

ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

12. ECOLOGICAL INFORMATION

Aquatic Toxicity: No Data Available.

Persistence and degradability: No Data Available.

Bioaccumulative potential: No Data Available.

Notes: No Data Available.

13. DISPOSAL CONSIDERATIONS

Disposal: Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material. Empty containers should be taken to an appropriate waste handling site for recycling or disposal. Dispose of in accordance with local, state, or national regulations.

14. TRANSPORTATION DATA

Hazardous:
DoT: Not Dangerous Goods.
IMDG: Not Dangerous Goods.
IATA: Not Dangerous Goods.

Pictogram: N/A

Hazard Class: N/A

Packing Group: N/A

UN Number: N/A

Proper Shipping Name:
DoT: N/A
IMDG: N/A
IATA: N/A

15. REGULATORY INFORMATION

SARA 302 Components No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components This material does not contain any chemical component with known CAS numbers that exceed the threshold (de minimis) reporting levels established by SARA Title III, Section 313.

SARA 311/312 Hazards Acute Health Hazard.

Massachusetts Right to Know Components No components are subject to the Ma. Right to Know Act.

Pennsylvania Right to Know Components Indium Acetate (CAS No. 25114-58-3).

New Jersey Right to Know Components Indium Acetate (CAS No. 25114-58-3).

California Prop. 65 Components This product does not contain any chemicals known to the State of California to cause cancer, birth defects, or any other reproductive harm.

16. OTHER INFORMATION

Revision Date: 05/18/2018