



SAFETY DATA SHEET

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SECTION 1 PRODUCT AND COMPANY INFORMATION

PRODUCT NAME: **Aluminum (III) Acetylacetonate**

PART NUMBER: 1006-5

CAS NUMBER: 13963-57-0

SYNONYMS: Aluminum triacetylacetonate, tris (acetylacetonato) aluminum, tris (2,4-pentanedionato) aluminum, aluminum 2, 4-pentanedionate

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SECTION 2 HAZARDS IDENTIFICATION

CLASSIFICATION OF SUBSTANCE OR MIXTURE

Pictogram



Signal Word **Warning**

Hazard Statements

H302	Harmful if swallowed.
H315	Causes skin irritation.
H320	Causes eye irritation.
H335	May cause respiratory irritation.

Precautionary Phrases

P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
P264	Wash hands 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.
P362	Take off contaminated clothing and wash before use.
P301 + P312	IF SWALLOWED: call a POISON CENTER or doctor/physician IF you feel unwell.
P302 + P352	IF ON SKIN: wash with plenty of soap and water.

SECTION 2 HAZARDS IDENTIFICATION (Cont.)

P304 + P340 + P312	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P332 + P313	If skin irritation occurs: Get medical advice/attention.
P403 + P233	Store in a well-ventilated place. Keep container tightly closed.

POTENTIAL HEALTH EFFECTS: Contact with skin and eyes. Inhalation of dust.

EYE CONTACT: Causes severe irritation of the eyes.

SKIN CONTACT: May cause irritation and redness.

INHALATION: May cause upper respiratory irritation.

INGESTION: Harmful if swallowed

SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

Formula: $\text{Al}(\text{C}_5\text{H}_7\text{O}_2)_3$

Molecular Weight: 324.31

CHEMICAL NAME	CAS#	%
Aluminum (III) Acetylacetonate	13963-57-0	100

SECTION 4 FIRST AID MEASURES

EYE EXPOSURE: Immediately flush the eyes with copious amounts of water (lukewarm if possible) for several 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 soap and copious amounts of water. Remove contaminated clothes if necessary. Seek medical assistance if irritation or redness persists.

INHALATION: Remove victim to fresh air. Closely monitor the victim for signs of respiratory problems, such as difficulty in breathing, coughing, wheezing, or pain. In such cases seek medical assistance.

INGESTION: DO NOT INDUCE VOMITING. Allow victim to rinse mouth out and then drink 2-4 cups of water, provided victim is conscious. Seek medical assistance immediately.

SECTION 5 FIREFIGHTING MEASURES

FLASH POINT: Not applicable

AUTO IGNITION TEMPERATURE: Not applicable

EXPLOSION LIMITS: Not applicable

EXTINGUISHING MEDIUM: Carbon dioxide, foam and dry powder.

SPECIAL FIRE FIGHTING PROCEDURES: No special fire-fighting procedures required. Use normal conditions, which include wearing NIOSH/MSHA, approved self-contained breathing apparatus, flame and chemical resistant clothing, hats, boots, and gloves.

HAZARDOUS COMBUSTION AND DECOMPOSITION PRODUCTS: Carbon monoxide, carbon dioxide, and 2,4-Pentanedione.

UNUSUAL FIRE OR EXPLOSION HAZARDS: None known

SECTION 6 ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS: Keep unprotected persons away. Wear appropriate respiratory and protective equipment to avoid exposure with material.

ENVIRONMENTAL PRECAUTIONS: Do not allow material to be released to the environment without proper governmental permits. Do not allow undiluted product to reach ground water, water bodies, or sewage system.

METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING UP: Mix with vermiculite or sodium bicarbonate. Sweep up avoiding raising dust and place in a well-marked container for disposal.

SECTION 7 HANDLING AND STORAGE

PRECAUTIONS FOR SAFE HANDLING: IRRITANT. Keep away from heat and direct sunlight. Avoid contact with skin and eyes. Do not breathe dust. Use adequate ventilation.

CONDITIONS FOR SAFE STORAGE: Store in a tightly sealed container. Store in cool, dry conditions. Store away from oxidizers.

SECTION 8 EXPOSURE CONTROLS AND PERSONAL PROTECTION

EYE PROTECTION: Always wear approved safety glasses with side shields, safety goggles, and face shield when handling a chemical substance in the laboratory.

SKIN PROTECTION: Chemical resistant

VENTILATION: Chemical fume hood

RESPIRATOR: Where adequate ventilation is not available a dust respirator should be worn.

ADDITIONAL PROTECTION: Protection to avoid contact with skin, eyes, and clothing. Safety shower and eyewash in area. Use in a controlled environment. Do not eat, drink, or smoke in area. IRRITANT. Avoid contact with skin and eyes. Do not breathe dust.

SEVERE irritant to eyes. Causes irritation to nose, throat, and upper respiratory tract.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

COLOR AND FORM: Off-white powder

MOLECULAR WEIGHT: 324.31

MELTING POINT: 188-195

SPECIFIC GRAVITY: No data

BOILING POINT: 315° C

VAPOR PRESSURE: <1h Pa @ 20° C

SOLUBILITY IN WATER: Negligible

ODOR: Slight odor of 2,4-pentanedione

SECTION 10 STABILITY AND REACTIVITY

STABILITY: Stable

HAZARDOUS POLYMERIZATION: Will not occur

CONDITIONS TO AVOID: Heat, direct sunlight

INCOMPATIBILITY: Oxidizing agents

DECOMPOSITION PRODUCTS: Carbon monoxide, carbon dioxide, aluminum oxides, 2,4-Pentanedione

SECTION 11 TOXICOLOGICAL DATA

RTECS DATA: Number BD2230000

CARCINOGENIC EFFECTS: No data

MUTAGENIC EFFECTS: No data

TETRAOGENIC EFFECTS: No data

TOXICITY DATA: IVN-MUS 178 mg/kg

To the best of our knowledge the toxicological effects of this compound have not been fully investigated. For use by technically qualified individuals. Not for household use. Research & Development only.

SECTION 12 ECOLOGICAL DATA

Do not allow material to be released to the environment without proper governmental permits. Do not allow undiluted product to reach ground water, water bodies, or sewage systems.

SECTION 13 DISPOSAL CONSIDERATIONS

Dispose of in according to local state and federal regulations.

SECTION 14 TRANSPORTATION DATA

Non-hazardous material

SECTION 15 REGULATORY INFORMATION

RTECS DATA: Number BD2230000

TSCA: Not listed

SARA (TITLE 313): Not reportable

SECTION 16 OTHER INFORMATION

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