



SAFETY DATA SHEET

ProChemOnline.com



SECTION 1 PRODUCT AND COMPANY INFORMATION

PRODUCT NAME: **Aluminum t-Butoxide**

PART NUMBER: 1011

CAS NUMBER: 556-91-2

SYNONYM: Aluminum Tri-tert-butoxide, Aluminum tert-butoxide, tri-tert-butoxyaluminum.

MANUFACTURER:

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SECTION 2 HAZARDS IDENTIFICATION

CLASSIFICATION OF SUBSTANCE OR MIXTURE

Pictogram



Signal Word **Danger**

Hazard Statements

H314	Causes severe skin burns and eye damage
H228	Flammable solid
H335	May cause respiratory irritation

Precautionary Phrases

P210	Keep away from heat/sparks/open flames/ hot surfaces.- No smoking.
P260	Do not breathe dust/fume/gas/mist/vapours/spray.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P310	Immediately call a POISON CENTER or doctor/physician.
P303 + P361 + P353	IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse SKIN with water/shower.
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.
P405	Store locked up.

SECTION 2 HAZARDS IDENTIFICATION (Cont.)

POTENTIAL HEALTH EFFECTS: Inhalation, Ingestion, Skin, and Eye contact

EYE CONTACT: Strong corrosive and irritating effect. Causes burns.

SKIN CONTACT: Corrosive effect on skin, Causes burns.

INHALATION: Corrosive and destructive to mucous membranes and respiratory tract.

INGESTION: Corrosive effect, burns, perforation.

SIGNS AND SYMPTOMS OF EXPOSURE: Symptoms of exposure may include burning sensation, coughing, wheezing, laryngitis, shortness of breath, headache, nausea, and vomiting. Inhalation may result in spam, inflammation and edema of the larynx and bronchi, chemical pneumonitis and pulmonary edema. Material is extremely destructive to tissue of the mucous membranes and upper respiratory tract, eyes and system.

SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

Formula: Al (C₄H₉O)₃

Molecular Weight: 246.33

CHEMICAL NAME	CAS#	%
Aluminum t-Butoxide	556-91-2	100

SECTION 4 FIRST AID MEASURES

EYE EXPOSURE: Immediately flush the eyes with copious amounts of water for several minutes. Assure flushing under eyelids.

A victim may need assistance in keeping their eyelids open. Get immediate medical attention.

SKIN EXPOSURE: Wash affected area with soap and copious amounts of water; rinse thoroughly. Remove contaminated clothes if necessary. Seek medical assistance if burns, redness, irritation persists/develop.

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 give oxygen if available. Seek immediate medical assistance. If not breathing, administer CPR.

INGESTION: Do not induce vomiting. Rinse out mouth if conscious. Seek medical assistance immediately.

SECTION 5 FIREFIGHTING MEASURES

FLASH POINT: No data

AUTO IGNITION TEMPERATURE: Not applicable

EXPLOSION LIMITS: Powder form is capable of creating a dust explosion.

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

SPECIAL FIRE FIGHTING PROCEDURES: If this product is involved in a fire, fire fighters should be equipped with a NIOSH approved positive pressure self-contained breathing apparatus and full protective clothing.

HAZARDOUS COMBUSTION AND DECOMPOSITION PRODUCTS: Aluminum oxide, carbon monoxide, carbon dioxide.

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. Use non-sparking tools. Ventilate area.

ENVIRONMENTAL PRECAUTIONS: Do not allow material to be released to the environment without proper governmental permits.

METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING UP: Isolate spill, keeping away from ignition sources. Sweep up and place in a well-marked container for disposal.

SECTION 7 HANDLING AND STORAGE

PRECAUTIONS FOR SAFE HANDLING: Air and Moisture Sensitive. Store under Nitrogen. Keep ignition sources away. Protect against electrostatic charges. CORROSIVE FLAMMABLE SOLID. Causes burns. Do not breathe dust. Do not get in eyes, on skin, or on clothing. Avoid prolonged or repeated exposure.

SECTION 7 HANDLING AND STORAGE (Cont.)

CONDITIONS FOR SAFE STORAGE: Keep in tightly sealed container. Store in a cool, dry, well-ventilated area away from incompatible materials.

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: Wear appropriate chemical resistant gloves, rubber, neoprene.

VENTILATION: Chemical fume hood

RESPIRATOR: If ventilation is not available, a respirator should be worn. The use of respirators requires a Respirator Protection Program to be in compliance with 29CFR 1910.34.

ADDITIONAL PROTECTION: Eyewash station/safety shower in area. Use in a controlled environment. Do not eat, drink, or smoke in area. Avoid contact with skin, eyes, and clothing. Use with adequate ventilation. **CORROSIVE.** Causes burns. **FLAMMABLE.** Keep away from all sources of ignition.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

COLOR AND FORM: Light-gray to gray powder

MOLECULAR WEIGHT: 246.33

MELTING POINT: 200-202° C

SPECIFIC GRAVITY: 1.0251 g/cm³

BOILING POINT: No data

VAPOR PRESSURE: No data

SOLUBILITY IN WATER: Decomposes

SECTION 10 STABILITY AND REACTIVITY

STABILITY: May decompose on exposure to moist air or water.

HAZARDOUS POLYMERIZATION: Will not occur

CONDITIONS TO AVOID: Moist air, water, all sources of ignition (sparks, flame)

INCOMPATIBILITY: Acids

DECOMPOSITION PRODUCTS: Carbon monoxide, carbon dioxide, metal oxide fume

SECTION 11 TOXICOLOGICAL DATA

CARCINOGENIC EFFECTS: No data

MUTAGENIC EFFECTS: No data

TETRATOGENIC EFFECTS: No data

To the best of our knowledge the toxicological effects of this compound have not been fully investigated. For research and development purposes only.

SECTION 12 ECOLOGICAL DATA

DO not allow product to reach ground water, water course or sewage system. Do not allow material to be released to the environment without proper governmental permits.

SECTION 13 DISPOSAL CONSIDERATIONS

Dispose of in according to local state and federal regulations.

SECTION 14 TRANSPORTATION DATA

Flammable solid, corrosive, organic, n.o.s. (Aluminum t-Butoxide)

Class 4.1 (8)

UN2925

PG II

IATA and DOT regulated.

SECTION 15 REGULATORY INFORMATION

TSCA: No data

SARA (TITLE 313): No data

RCRA: No data

SECTION 16 OTHER INFORMATION

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