



# SAFETY DATA SHEET

ProChemOnline.com



## SECTION 1 PRODUCT AND COMPANY INFORMATION

PRODUCT NAME: **Aluminum isopropoxide**  
PRODUCT NUMBER: 1018  
CAS NUMBER: 555-31-7  
SYNONYMS: Aluminum isopropylate, AIP, Aluminum triisopropoxide

### MANUFACTURER:

ProChem, Inc.  
826 Roosevelt Road  
Rockford, IL 61109

PHONE: 815-398-1788  
FAX: 815-398-1810  
TOLL FREE: 800-795-8788

IN CASE OF TRANSPORTATION EMERGENCY CONTACT CHEM-TREC: 1-800-424-9300

## SECTION 2 HAZARDS IDENTIFICATION

### CLASSIFICATION OF SUBSTANCE OR MIXTURE

Pictogram



Signal Word

**Danger**

### Hazard Statements

H228	Flammable solid.
H319	Causes serious eye irritation.

### Precautionary Phrases

P210	Keep away from heat/sparks/open flames/hot surfaces. – No smoking.
P240	Ground/bond container and receiving equipment.
P241	Use explosion-proof electrical/ventilating/lighting/equipment.
P261	Avoid breathing dust/fume/gas/mist/vapor/spray.
P264	Wash skin and hands thoroughly after handling.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P304+P340	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.
P337+P313	If eye irritation persists: Get medical advice/attention.
P370+P378	In case of fire: Use for extinction: CO <sub>2</sub> , powder or water spray.

## SECTION 2 HAZARDS IDENTIFICATION (Cont.)

### HMIS CLASSIFICATION:

Health: 0 Fire: 3 Reactivity: 1

### NFPA RATING:

Health: 2 Fire: 2 Reactivity: 1

**POTENTIAL HEALTH EFFECTS:** Ingestion, inhalation, skin, and eyes.

**EYE CONTACT:** May cause eye irritation.

**SKIN CONTACT:** May be harmful if absorbed through skin. May cause skin irritation.

**INHALATION:** May be harmful if inhaled. May cause respiratory tract irritation.

**INGESTION:** May be harmful if swallowed.

## SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

Formula:  $\text{Al}(\text{O}(\text{CH}_3)\text{CHCH}_3)_3$

Molecular Weight: 204.24

CHEMICAL NAME	CAS#	%
Aluminum isopropoxide	555-31-7	100

## SECTION 4 FIRST AID MEASURES

**EYE EXPOSURE:** Rinse opened eye for several minutes under running water. Then consult a doctor.

**SKIN EXPOSURE:** Immediately wash with water and soap and rinse thoroughly. Seek immediate medical advice.

**INHALATION:** Supply fresh air. If required, provide artificial respiration. Keep patient warm. Seek immediate medical advice.

**INGESTION:** Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

## SECTION 5 FIREFIGHTING MEASURES

**FLASH POINT:** 16° C

**AUTO IGNITION TEMPERATURE:** Not available

**EXPLOSION LIMITS:** Not available

**EXTINGUISHING MEDIUM:** Use carbon dioxide, extinguishing powder or foam. Water may be ineffective but may be used for cooling exposed containers.

**SPECIAL FIRE FIGHTING PROCEDURES:** Wear self contained breathing apparatus for fire fighting if necessary.

**HAZARDOUS COMBUSTION AND DECOMPOSITION PRODUCTS:** Carbon oxides and aluminum oxide.

## SECTION 6 ACCIDENTAL RELEASE MEASURES

**PERSONAL PRECAUTIONS:** Wear protective equipment. Keep unprotected persons away. Ensure adequate ventilation. Keep away from ignition sources.

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

**METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING UP:** Ensure adequate ventilation. Keep away from ignition sources. Keep in suitable, closed containers for disposal.

## SECTION 7 HANDLING AND STORAGE

**PRECAUTIONS FOR SAFE HANDLING:** Handle under dry protective gas. Keep container tightly sealed. Store in a cool, dry place in tightly closed containers. Ensure good ventilation at the workplace.

**CONDITIONS FOR SAFE STORAGE:** Store away from oxidizing agents and water/moisture. Store under dry inert gas. This product is moisture sensitive. Keep container tightly sealed. Store in cool, dry conditions in well sealed containers. Protect from humidity and water.

## SECTION 8 EXPOSURE CONTROLS AND PERSONAL PROTECTION

**EYE PROTECTION:** Safety glasses with side-shields conforming to EN166. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166 (EU).

**SKIN PROTECTION:** Flame retardant antistatic protective clothing.

**RESPIRATOR:** Use suitable respirator when high concentrations are present.

**VENTILATION:** Use a chemical fume hood designed for hazardous chemicals and having an average face velocity of at least 100 feet per minute.

## SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

**COLOR AND FORM:** White solid

**MOLECULAR WEIGHT:** 204.24

**MELTING POINT:** 130° C

**SPECIFIC GRAVITY:** 1.035

**BOILING POINT:** 125-130° C

**VAPOR PRESSURE:** <0.01 hPa (<0 mm Hg)

**SOLUBILITY IN WATER:** Insoluble

**ODOR:** None

## SECTION 10 STABILITY AND REACTIVITY

**STABILITY:** Stable

**HAZARDOUS POLYMERIZATION:** Will not occur

**CONDITIONS TO AVOID:** Heat, flames, and sparks. Extremes of temperature and direct sunlight.

**INCOMPATIBILITY:** Water/moisture and oxidizing agents. Strong acids, Halogens.

**DECOMPOSITION PRODUCTS:** Carbon oxides and aluminum oxide

## SECTION 11 TOXICOLOGICAL DATA

**ACUTE TOXICITY:** LD50 Oral – rat – 11.3 g/kg.

**CARCINOGENIC EFFECTS:** Not available

**MUTAGENIC EFFECTS:** Not available

**TETRATOGENIC EFFECTS:** Not available

**DEVELOPMENTAL TOXICITY:** Not available

This substance is toxic to lungs, mucous membranes. Repeated or prolonged exposure to this substance can produce target organ damage.

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

## SECTION 12 ECOLOGICAL DATA

Do not allow undiluted product or large quantities of product to reach ground water, watercourse, or sewage system. Do not allow material to be released into environment without proper governmental permits.

## SECTION 13 DISPOSAL CONSIDERATIONS

Dispose of in according to local state and federal regulations.

## **SECTION 14 TRANSPORTATION DATA**

UN3181

Metal salts of organic compounds, Flammable , n.o.s.  
(Aluminum Isopropoxide)

CLASS 4.1

PG II

## **SECTION 15 REGULATORY INFORMATION**

**OSHA:** Flammable solid

**SARA 302 COMPONENTS:** No components

**SARA 313 COMPONENTS:** No components

**SARA 311/312 HAZARD:** Fire hazard

**PENNSYLVANIA RIGHT TO KNOW COMPONENTS:** Aluminum Triisopropanolate

**NEW JERSEY RIGHT TO KNOW COMPONENTS:** Aluminum Triisopropanolate

## **SECTION 16 OTHER INFORMATION**

**DISCLAIMER:** The information herein is believed to be accurate and reliable as of the date compiled. However, Prochem, Inc. makes no representation, warranty, or guarantee of any kind with respect to the information in this document or any use of the product based on the information.

**DATE REVISED:** 11/21