



Aluminium Isopropoxide CAS No.555-31-7

MATERIAL SAFETY DATA SHEET

ALUMINIUM ISOPROPOXIDE

SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

MSDS Name : ALUMINIUM ISOPROPOXIDE

Synonyms : --

Company Identification: **Sparchem,**

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SECTION – 2 COMPOSITION, INFORMATION ON INGREDIENTS

CAS No. 555-31-7

Chemical Name - Aluminium isopropoxide

Hazard Symbols : F

Risk Phrases : 11

SECTION – 3 HAZARDS IDENTIFICATION

Emergency overview

Highly flammable

Potential Health Effects

Eyes : May cause eye irritation.

Skin : May cause skin irritation. May be harmful if absorbed through the skin.

Ingestion : May cause irritation of the digestive tract. May be harmful if swallowed.

Inhalation : May cause respiratory tract irritation. May harmful if inhaled.

SECTION – 4 FIRST AID MEASURES

Eyes : Flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Get medical aid.

Skin : Get medical aid. Flush skin with plenty of water while removing contaminated clothing and shoes.

Ingestion : Get medical aid. Wash mouth out with water.

Inhalation : Get medical aid. Remove from exposure and move to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give Oxygen.

SECTION – 5 FIRE FIGHTING MEASURES

General

Information : As in case of any fire, use a self-contained breathing apparatus and full protective gear. Flammable solid.

Extinguishing media : Use water spray, dry chemical, carbon dioxide or chemical foam.

SECTION – 6 ACCIDENTAL RELEASE MEASURES

General information : Use proper personal protective equipment.

Spills/leaks : Vacuum or sweep up material and place into a suitable disposal container. Remove all sources of ignition. Use a spark-proof tool.

SECTION – 7 HANDLING AND STORAGE

Handling : Avoid breathing dust, vapour, mist, or gas. Avoid contact with skin and eyes.

Storage : Store in a dry place. Keep container closed when not in use. Store in a tightly closed container.

SECTION – 8 EXPOSURE CONTROLS, PERSONAL PROTECTION

Engineering controls : Facilities storing or utilizing this material should be equipped with an eye wash facility and safety shower. Use adequate ventilation to keep airborne concentrations low.

Exposure Limits : CAS # 555-31-7 : Not available.

Personal protective equipment

Eyes : Wear chemical safety goggles.

Skin : Wear appropriate protective gloves to prevent skin exposure.

Clothing : Wear appropriate protective clothing to prevent skin exposure.

Respirators : Wear appropriate respirators where necessary.

SECTION – 9 PHYSICAL AND CHEMICAL PROPERTIES

Physical state : Crystalline powder

Appearance : White

Odor : Alcohol - like

PH : Not available

Vapor pressure : Not available

Viscosity : Not available

Boiling point : 125 -130°C @ 38mmHg

Freezing / melting point : 129 – 136°C

Flash Point : 46°C

Decomposition temp. : Not available

Autoignition temp. : Not available

Solubility in water : Reacts

Specific gravity/density : --

Molecular Formula : $C_9H_{21}AlO_3$

Molecular Weight : 204.25

SECTION – 10 STABILITY AND REACTIVITY

Chemical stability : Stable under normal temperatures and pressures. Moisture sensitive.
Conditions to avoid Incompatible materials, ignition sources, exposure to moist air or water.

Incompatible with other materials : Strong oxidizing agents, strong acids, halogens.

Hazardous decomposition products: Carbon monoxide, carbon dioxide, aluminium oxide.

Hazardous polymerization : Not available.

SECTION – 11 TOXICOLOGICAL INFORMATION

RTECS # : CAS No # 555-31-7 : BD0975000

LD50/LC50 : RTECS :

CAS # 555-31-7 : Oral, rat : LD50 = 11300 mg / kg;

Carcinogenicity : Aluminium isopropoxide - Not listed as a carcinogen by ACGIH, IARC, NTP

SECTION – 12 ECOLOGICAL INFORMATION

Not available

SECTION – 13 DISPOSABLE CONSIDERATION

Dispose of in a manner consistent with federal, state and local regulations.

SECTION – 14 TRANSPORT INFORMATION

IATA IMO RID/ADR

Shipping Name Not available Not available Not available

Hazard Class -- -- --

UN Number -- -- --

Packing group -- -- --

SECTION – 15 REGULATORY INFORMATION

European / International Regulations:-

European Labelling in Accordance with EC Directives

Hazard Symbols : F

Risk Phrases :

R 11 Highly flammable.

Safety Phrases :

S 8 Keep container dry.

S 16 Keep away from sources of ignition - No smoking.

WGK (Water Danger/Protection)

CAS# 555-31-7 : 1

Canada

CAS# 555-31-7 is listed on Canada's DSL List

US FEDERAL

TSCA

CAS# 555-31-7 : is listed on the TSCA inventory.

SECTION – 16 ADDITIONAL INFORMATION

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