

# ALUMINIUM ISOPROPOXIDE EXTRA PURE

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□□ (EU) 2020/878 □□ □□ □□ REACH □□ (EC) 1907/2006 □□ □□

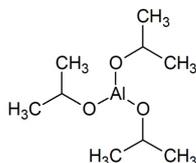
SDS Reference Number: 00912

□□ □□□□: 4/9/2014 □□ □□□□: 10/14/2025 □□ □□: 4/9/2015 □□: 1.0

## □□ 1: □□□□ □□ □□ □□ □□

### 1.1. □□□□

□□ □□ : □□  
 □□ □□ : ALUMINIUM ISOPROPOXIDE EXTRA PURE  
 EC □□ □□ : 603-042-00-3  
 EC □□ : 209-090-8  
 CAS □□ : 555-31-7  
 □□ □□ : 00912  
 □□ □□ : Organometallic compound  
 □□ □□ : C<sub>9</sub>H<sub>21</sub>AlO<sub>3</sub>  
 □□ □□ :



□□ □□ : Triisopropoxyaluminium, Aluminium isopropanolate, Aluminium sec-propanolate, Aluminium triisopropoxide

### 1.2. □□□□ □□ □□□□ □□ □□ □□ □□

□□ □□ □□ :  
 □□□□/□□□□ □□ : Laboratory chemicals, Manufacture of substances  
 □□□□/□□□□ □□ : Reagent

### 1.3. □□□□□□□□ □□ □□ □□

LOBA CHEMIE PVT.LTD.  
 107 Wode House Road, Jehangir Villa, Colaba  
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[info@lobachemie.com](mailto:info@lobachemie.com), [www.lobachemie.com](http://www.lobachemie.com)

### 1.4. □□□□□□

□□ □□ □□ : + 91 22 6663 6663 (9:00am - 6:00 pm)

## □□ 2: □□□·□□□

### 2.1. □□□·□□□ □□

Regulation (EC) No.1272/2008 [CLP] □□ □□ □□

□□ □□, □□ 1 H228

H-□□ □□ EUH-□□ □□: □□ 16 □□

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### 2.2. □□□□□□□□ □□ □□□□ □□

□□ (EC) No. 1272/2008 □□ □□ □□ [CLP]

□□ □□ □□□□(CLP)



GHS02

□□ □□ (CLP) : □□

# ALUMINIUM ISOPROPOXIDE EXTRA PURE

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□□ (EU) 2020/878 □□ □□□ REACH □□ (EC) 1907/2006 □□ □□

□□·□□ □□ (CLP) : H228 - □□□ □□.  
□□ □□ □□(CLP) : P210 - □·□□□ □□·□□□·□□·□□ □□□□□□ □□□□□. □□.

## 2.3. □□ □□

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## □□ 3: □□□□□ □□ □ □□□

### 3.1. □□□□

□□ □□ : □□□□□□

□□	□□□□	%
ALUMINIUM ISOPROPOXIDE	CAS □□: 555-31-7 EC □□: 209-090-8 EC □□ □□: 603-042-00-3	100

## □□ 4: □□□□□□

### 4.1. □□□□ □□

□□ □□ □□ : If you feel unwell, seek medical advice.  
□□□□ □□ : □□□□ □□ □□ □□ □□□□ □□ □□□□ □□□□. Allow affected person to breathe fresh air. □□□□ □□□□ □□□□ □□ □□□□ □□ □□□□ □□ □□□□ □□□□.  
□□□□ □□□□ □□ : □□□□ □□ □□□□. □□ □□□□ □□/□□□□ □□□□. Wash skin with plenty of water.  
□□ □□□□ □□ : □□ □□ □□□□ □□□□. □□□□ □□□□□□ □□□□□□. □□ □□□□. □□□□ □□/□□□□ □□□□.  
□□□□ □□ : □□ □□□□□□. Do not induce vomiting. □□□□ □□/□□□□ □□□□□□. □□□□ □□□□ □□□□(□□) □□ □□□□□□.  
Self protection of the first-aider : □□□□ □□□□ □□□□ □□ □□ □□□□ □□□□ □□□□.

### 4.2. □□ □ □□□□ □□ □□□ □□ □ □□□

□□ □ □□/□□ : None under normal conditions. Dust of the product, if present, may cause respiratory irritation after excessive inhalation exposure.  
□□ □□ □ □□/□□ : None under normal conditions. Dust may cause irritation in skin folds or by contact in combination with tight clothing.  
□ □□ □ □□/□□ : None under normal conditions. Dust from this product may cause eye irritation.  
□□ □ □□/□□ : None under normal conditions.

### 4.3. □□□□ □□ □ □□ □□ □□ □□ □□

Treat symptomatically.

## □□ 5: □□·□□□□ □□□□

### 5.1. □□□□ □□□□

□□□□ □□□□ : Carbon dioxide. Dry powder. Foam. Water spray.  
□□□□ □□□□ : Do not use extinguishing media containing water.

### 5.2. □□□□□□□□ □□□□ □□ □□□□

□□ □□ : □□□□ □□.  
□□ □□ : May form flammable/explosive vapour-air mixture.  
□□ □ □□□ □□□□ □□ : Toxic fumes may be released.

# ALUMINIUM ISOPROPOXIDE EXTRA PURE

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□□ (EU) 2020/878 □□ □□□ REACH □□ (EC) 1907/2006 □□ □□

## 5.3. □□□□ □□□□ □ □□□□

- □□ : Fight fire from safe distance and protected location. Do not enter fire area without proper protective equipment, including respiratory protection.
- □□ □ □□ : Do not enter fire area without proper protective equipment, including respiratory protection. Do not attempt to take action without suitable protective equipment. □□□ □□□□□. Complete protective clothing.

## □□ 6: □□□□□ □□□□

### 6.1. □□□ □□□□ □□ □□□ □□□□ □ □□□

- □□ : □□□□ □□□□□. Use special care to avoid static electric charges. No open flames. No smoking. □□ □□ □□ □□□□□ □□□ □□ □□□ □□. □□□□□ □□□□ □□ □□□□ □□□□□□.
- □□ □□ : Wear recommended personal protective equipment.
- □□ : Ventilate spillage area. Evacuate unnecessary personnel. □□, □□□□ □□ □□. □□.
- □□ □□ : Do not attempt to take action without suitable protective equipment. □□□ □□ □□□□ □□□□□. □□ □□□ □□□ □□ 8: "□□□□ □ □□□□□" □□□□□.
- □□ : Ventilate area. Evacuate unnecessary personnel.

### 6.2. □□□ □□□□ □□ □□□ □□□□

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### 6.3. □□ □□ □□ □□

- : Using a clean shovel, put the material in a dry container and cover without compressing it.
- □□ : Mechanically recover the product. Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. On land, sweep or shovel into suitable containers. □□□ □□□ □□ □□□□□ □□ □□ □□□ □□.
- □□ □□□□ : Dispose of materials or solid residues at an authorized site.

### 6.4. □□ □□ □□

For further information refer to section 13.

## □□ 7: □□ □ □□□□

### 7.1. □□□□□□

- □ □□□□□ □□ □□ □□□□□□ : Handle empty containers with care because residual vapours are flammable.
- : Ensure good ventilation of the work station. □□ □□□□ □□□□□□. □□ □ □□□ □□□ □□□□□. Keep away from sources of ignition - No smoking. Do not breathe vapours. □□□ □□ □□□ □□□□□□. □, □□□ □□, □□□, □□ □ □ □□ □□□□□□□ □□□□□□. □□. □□□ □□□□□ □□□□□□.
- □□ : □ □□□ □□□ □□□ □□□, □□□□ □□□□ □□□□. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Always wash hands after handling the product.

### 7.2. □□□□ □□□ □□□ □□□ □□ □□

- □□ : Proper grounding procedures to avoid static electricity should be followed. □□□ □□□□□ □□□□ □.
- □□ : □□□ □□□ □□□□□□. Keep in fireproof place. □□□ □□□□□□. □□□□ □□□□□□. □□□□□ □□□□ □.
- □ □□ : Heat sources.
- : Store always product in container of same material as original container.

### 7.3. □□ □□ □□

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# ALUMINIUM ISOPROPOXIDE EXTRA PURE

□□□□□□□□

□□ (EU) 2020/878 □□ □□□ REACH □□ (EC) 1907/2006 □□ □□

## □□ 8: □□□□ □□□□□□

### 8.1. □□ □□ □□

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### 8.2. □□□□

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Ensure good ventilation of the work station.

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□□ □□□:

Wear recommended personal protective equipment.

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□□ □□:

Chemical goggles or safety glasses

#### Skin protection

□□ □□:

Wear a mask

□□ □□:

Protective gloves

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□□□ □□□:

Wear appropriate mask

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## □□ 9: □□□□□ □□

### 9.1. □□□□ □□□□□ □□□ □□ □□

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: White.

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: Fine powder.

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: 204.25 g/mol

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: alcohol like.

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: 130 – 134 °C

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: 125 – 130 °C

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□□ (EU) 2020/878 □□ □□□ REACH □□ (EC) 1907/2006 □□ □□

□□□□ : □: Insoluble (Decomposes in water)  
□□□□: Soluble in Ethanol

Partition coefficient n-octanol/water (Log Kow) : □□□□

□□□□ : 0.13 hPa at 21 °C

50°C□□□□ □□□□ : □□□□

□□ : 1.035 g/cm<sup>3</sup> at 25 °C

□□ : □□□□

20°C□□□□ □□ □□ □□ : □□□□

Particle size : □□□□

## 9.2. □□□□□□□□

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## □□ 10: □□□□ □□□□

### 10.1. □□□□

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### 10.2. □□□□ □□□□

Stable under normal conditions.

### 10.3. □□□□□□□□

No dangerous reactions known under normal conditions of use.

### 10.4. □□□□ □□□□

Open flame. □. Sparks. □□□□ □□□□ □□□□. □□, □□□, □□□□ □□ □□□□□□.

### 10.5. □□□□ □□□□

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### 10.6. □□□□ □□□□ □□□□

May release flammable gases.

## □□ 11: □□□□ □□ □□

### 11.1. □□ (EC) No 1272/2008 □□□□, □□□□ □□□□ □□ □□

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### ALUMINIUM ISOPROPOXIDE EXTRA PURE (555-31-7)

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### 11.2. □□□□ □□□□

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# ALUMINIUM ISOPROPOXIDE EXTRA PURE

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□□ (EU) 2020/878 □□ □□□ REACH □□ (EC) 1907/2006 □□ □□

## □□ 12: □□□ □□□ □□

### 12.1. □□

□□□ - □□ : The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment.  
□□ □□□□ □□□ : □□□□ □□  
□□ □□□□ □□□ : □□□□ □□

### 12.2. □□□ □□□ □□□

ALUMINIUM ISOPROPOXIDE EXTRA PURE (555-31-7)	
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### 12.3. □□ □□□

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### 12.4. □□ □□□

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### 12.5. PBT □ vPvB □□ □□

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### 12.6. □□□ □□ □□

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### 12.7. □□ □□ □□

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## □□ 13: □□□ □□□□

### 13.1. □□□ □□□

□□ □□(□□□) : Disposal must be done according to official regulations.  
□□□ □□□ : Dispose of contents/container in accordance with licensed collector's sorting instructions.  
□□ □□ □□ □□ : Disposal must be done according to official regulations.  
□□/□□ □□ □□□□ : Comply with applicable regulations for solid waste disposal. Disposal must be done according to official regulations.  
□□ □□ : Handle empty containers with care because residual vapours are flammable. Do not re-use empty containers.

## □□ 14: □□□ □□□ □□

ADR / IMDG / IATA / ADN / RID □□ □□

### 14.1. UN □□ □□ ID □□

UN-□□ (ADR) : UN 3181  
UN-□□ (IMDG) : UN 3181  
UN-□□ (IATA) : UN 3181  
UN-□□ (ADN) : UN 3181  
UN-□□ (RID) : UN 3181

### 14.2. UN □□ □□□

□□ □□□ (ADR) : □□□□□□ □□□□, □□□, □□ □□□ □□□ □□ □  
□□ □□□ (IMDG) : METAL SALTS OF ORGANIC COMPOUNDS, FLAMMABLE, N.O.S.  
□□ □□□ (IATA) : Metal salts of organic compounds, flammable, n.o.s.  
□□ □□□ (ADN) : □□□□□□ □□□□, □□□, □□ □□□ □□□ □□ □

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□□ □□□ (RID)	:	□□□□□□ □□□□, □□□, □□ □□□ □□□ □□ □
□□ □□ □□ (ADR) (ADR)	:	UN 3181 □□□□□□ □□□□, □□□, □□ □□□ □□□ □□ □ (ALUMINIUM ISOPROPOXIDE), 4.1, II, (E)
Transport document description (IMDG)	:	UN 3181 METAL SALTS OF ORGANIC COMPOUNDS, FLAMMABLE, N.O.S., 4.1, II
Transport document description (IATA)	:	UN 3181 Metal salts of organic compounds, flammable, n.o.s. (ALUMINIUM ISOPROPOXIDE), 4.1, II
Transport document description (ADN)	:	UN 3181 □□□□□□ □□□□, □□□, □□ □□□ □□□ □□ □, 4.1, II
Transport document description (RID)	:	UN 3181 □□□□□□ □□□□, □□□, □□ □□□ □□□ □□ □, 4.1, II

## 14.3. □□□□□ □□□ □□

### ADR

□□□□□ □□□ □□ (ADR)	:	4.1
□□ □□ (ADR)	:	4.1



### IMDG

□□□□□ □□□ □□ (IMDG)	:	4.1
□□ □□ (IMDG)	:	4.1



### IATA

□□□□□ □□□ □□ (IATA)	:	4.1
□□ □□ (IATA)	:	4.1



### ADN

□□□□□ □□□ □□ (ADN)	:	4.1
□□ □□ (ADN)	:	4.1



### RID

□□□□□ □□□ □□ (RID)	:	4.1
□□ □□ (RID)	:	4.1



## 14.4. □□□□

□□ □□ (ADR)	:	II
□□ □□ (IMDG)	:	II
□□ □□ (IATA)	:	II
□□ □□ (ADN)	:	II
□□ □□ (RID)	:	II

# ALUMINIUM ISOPROPOXIDE EXTRA PURE

□□□□□□□□

□□ (EU) 2020/878 □□ □□□ REACH □□ (EC) 1907/2006 □□ □□

## 14.5. □□ □□□□

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 □□□□□□ : □□□  
 EmS-No. (□□) : F-A  
 EmS-No. (□□) : S-I  
 □ □□ □□□□ : □□ □□ □□ □□

## 14.6. □□□□ □□ □□ □□□□

□□ □□ :  
 □□ □□ (ADR) : F3  
 □□ □□(ADR) : 274  
 □□□(ADR) : 1kg  
 □□□(ADR) : E2  
 □□ □□(ADR) : P002, IBC08  
 □□ □□ (ADR) : B4  
 □□ □□ □□ □□ □□(ADR) : MP11  
 □□□ □□ □□ □□ □□□□ □□ (ADR) : T3  
 □□□ □□ □□ □□ □□□□ □□ □□ (ADR) : TP33  
 □□ □□(ADR) : SGAN  
 □□ □□□□ □□ : AT  
 □□ □□(ADR) : 2  
 □□ □□ □□ □□ - □□(ADR) : V11  
 □□ □□ □□(Kemler □□) : 40  
 Orange plates (□□□□□□) :



□□ □□ □□ (ADR) : E  
 EAC □□ : 1Z

□□ □□ :  
 □□ □□ (IMDG) : 274  
 □□ □□(IMDG) : 1 kg  
 □□□(IMDG) : E2  
 □□ □□ (IMDG) : P002  
 □□ □□ (IMDG) : PP31  
 IBC □□ □□(IMDG) : IBC08  
 IBC □□ □□ (IMDG) : B21, B4  
 □□ □□ (IMDG) : T3  
 □□ □□ □□ (IMDG) : TP33  
 □□ □□ (IMDG) : B  
 □□ □□ □□(IMDG) : SW2  
 □□(IMDG) : SGG7  
 □□□ □□□□ (IMDG) : Decomposes in water. Liable to spontaneous heating. Irritating to skin and mucous membranes.

□□ □□ :  
 PCA □□ □□(IATA) : E2  
 PCA □□ □□(IATA) : Y441  
 PCA □□ □□ □□ □□□(IATA) : 5kg  
 PCA □□ □□(IATA) : 445  
 PCA □□ □□□(IATA) : 15kg  
 CAO □□ □□(IATA) : 448  
 CAO □□ □□□(IATA) : 50kg  
 □□ □□(IATA) : A3, A803  
 ERG □□(IATA) : 3L

□□ □□ □□ :  
 □□ □□(ADN) : F3  
 □□ □□(ADN) : 274  
 □□□(ADN) : 1 kg  
 □□□(ADN) : E2

# ALUMINIUM ISOPROPOXIDE EXTRA PURE

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□□ (EU) 2020/878 □□ □□□ REACH □□ (EC) 1907/2006 □□ □□

□□ □□(ADN) : PP  
□□ □□/□□□ □□(ADN) : 1

□□ □□  
□□ □□(RID) : F3  
□□ □□(RID) : 274  
□□ □□(RID) : 1kg  
□□□(RID) : E2  
□□ □□ (RID) : P002, IBC08  
□□ □□ (RID) : B4  
□□ □□ □□ □□ □□(RID) : MP11  
□□□ □□ □□ □□□□ □□ (RID) : T3  
□□□ □□ □□ □□□□ □□ □□ (RID) : TP33  
RID □□□ □□ □□(RID) : SGAN  
□□ □□(RID) : 2  
□□ □□ □□ □□ - □□(RID) : W1  
□□ □□□ : CE10  
□□□ □□ □□ (RID) : 40

## 14.7. □□□□□□(IMO) □□ □□ □□ □□

□□□□

## □□ 15: □□ □□□□

### 15.1. □□, □□ □□□□ □□□□ □□□□ □□ □□ □□/□□

EU □□

REACH □□□ XVII (□□ □□)

EU restriction □□ (REACH Annex XVII)	
□□ □□	□□ □□
40.	ALUMINIUM ISOPROPOXIDE EXTRA PURE

REACH □□□ XIV (□□ □□)

REACH □□□ XIV (□□ □□) □□□□ □□

REACH □□ □□ □□ (SVHC)

REACH □□ □□ □□□□ □□

PIC □□ (□□□□□□)

PIC □□□ □□□□ □□ (□□ EU 649/2012)

POP □□ (□□□□ □□ □□□□)

POP □□□ □□□□ □□ (□□ EU 2019/1021)

Ozone Regulation (2024/590)

Not listed on the Ozone Depletion list (Regulation EU 2024/590)

□□□□ □□(428/2009)

Not listed on the COUNCIL REGULATION (EC) of dual-use items.

□□ □□□□ □□ (2019/1148)

Not listed on the Explosives Precursors list (EU)

□□ □□□□ □□ (273/2004)

Not listed on the Drug Precursors list (EU)

# ALUMINIUM ISOPROPOXIDE EXTRA PURE

□□□□□□□□

□□ (EU) 2020/878 □□ □□□ REACH □□ (EC) 1907/2006 □□ □□

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WGK : WGK 3, □□ □□ □□□ (Classification according to AwSV).

□□□□

SZW-lijst van kankerverwekkende stoffen : □□□ □□□□ □□□□□.

SZW-lijst van mutagene stoffen : □□□ □□□□ □□□□□.

SZW-lijst van reprotoxische stoffen – Borstvoeding : □□□ □□□□ □□□□□.

SZW-lijst van reprotoxische stoffen – Vruchtbaarheid : □□□ □□□□ □□□□□.

SZW-lijst van reprotoxische stoffen – Ontwikkeling : □□□ □□□□ □□□□□.

□□□

Class for fire hazard : □□ I-1

Store unit : 1 liter

□□ □□ □□ □□ : F <□□□ □□ 1>; □□□ □□ □□□ □□ □□ □□□ □□□□ □□□

□□□

□□□ □□ □□ : Act of 25 February 2011 on chemical substances and their mixtures (J. o L. No. 63, item 322 as amended; consolidated text J. o L. 2019, item 1225).  
Act of 14 December 2012 on waste (J. o L. 2013, item 322 as amended; consolidated text J. o L. 2020, item 797).  
The announcement of Marshal of the Sejm of the Republic of Poland dated 19 October 2016 concerning the consolidated text announcement of the decree on the management of packaging and packaging waste (J. o L. 2016, item 1863 as amended).  
Decree of the Minister of Environment of 14 December 2014 on the catalogue of waste (J. o L. 2014, item 1923).  
Act of 19 August 2011 on the Carriage of Dangerous Goods (J. o L. 2011 No. 227, item 1367 as amended; consolidated text J. o L. 2020, item 154).  
Regulation of the Minister of Family, Labour and Social Policy of 12 June 2018 on the highest permissible concentration and intensity of noxious agents for health at work environment (J. o L. item 1286 as amended).  
The announcement of Minister of Health dated 9 September 2016 concerning the consolidated text announcement of the decree of the Minister of Health of 30 December 2004 on health and safety at work related to exposure to chemical agents at work (J. o L. of 16 September 2016, item 1488)  
Regulation of the Minister of Health of 2 February 2011 on tests and measurements of the noxious agents for health at work environment (J. o L. No. 33, item 166 as amended).  
Regulation of the Minister of Environment of 9 December 2003 on particularly hazardous substances to the environment (J. o L. No. 217, item 2141).  
ADR Agreement: Government Statement of 13 March 2023 on the entry into force of amendments to Annexes A and B to the Agreement concerning the International Carriage of Dangerous Goods by Road (ADR), signed in Geneva on 30 September 1957 (J. o L. 2023, item 891)

## 15.2. □□ □□ □□□ □□

No chemical safety assessment has been carried out

## □□ 16: □ □□ □□□□

□□ □ □□□□:

ACGIH	American Conference of Government Industrial Hygienists
ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
ATE	Acute Toxicity Estimate
BCF	Bioconcentration factor
BLV	□□ □□ □

# ALUMINIUM ISOPROPOXIDE EXTRA PURE

□□□□□□□□

□□ (EU) 2020/878 □□ □□□ REACH □□ (EC) 1907/2006 □□ □□

□□ □ □□□□:	
BOD	Biochemical oxygen demand (BOD)
CAS □□	□□□□ □□ □□ □□(CAS)
CLP	Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008
COD	□□□ □□ □□□
CSA	□□ □□ □□□ □□
DMEL	Derived Minimal Effect level
DNEL	□□ □□□ □□
EC □□	□□ □□□ □□
EC50	Median effective concentration
ED	□□□ □□□□
EN	□□ □□
EWC	European waste catalogue
IARC	International Agency for Research on Cancer
IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods
LC50	Median lethal concentration
LD50	Median lethal dose
LOAEL	Lowest Observed Adverse Effect Level
Log Kow	Partition coefficient n-octanol/water (Log Kow)
Log Pow	Partition coefficient n-octanol/water (Log Pow)
MAK	maximum workplace concentration
NOAEC	No-Observed Adverse Effect Concentration
NOAEL	No-Observed Adverse Effect Level
NOEC	No-Observed Effect Concentration
N.O.S.	Not Otherwise Specified
OECD	Organisation for Economic Co-operation and Development
OEL	□□□ □□ □□
OSHA	Occupational Safety & Health Administration
PBT	Persistent Bioaccumulative Toxic
PNEC	□□ □□□ □□
PPE	□□ □□□
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail
SDS	□□□□□□□□
STP	Sewage treatment plant
TF	□□□ □□
ThOD	Theoretical oxygen demand (ThOD)
TLM	Median Tolerance Limit
TWA	Time Weighted Average
COV	Volatile Organic Compounds

# ALUMINIUM ISOPROPOXIDE EXTRA PURE

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□□ (EU) 2020/878 □□ □□□ REACH □□ (EC) 1907/2006 □□ □□

□□ □ □□□□□:	
vPvB	Very Persistent and Very Bioaccumulative
UFI	□□ □□ □□□

H-□□ □ EUH-□□ □□:	
□□□ □□ 1	□□□ □□, □□ 1
H228	□□□ □□.

□□□□□□□□(SDS), EU

□ □□□ □□ □□□ □□ □□□ □□ □□□ □□, □□ □ □□ □□□ □□ □□□□ □□ □□□□. □□□□ □□□ □□□ □□□□ □□□ □□ □□□□ □□□□.