



# NIELSEN

## SAFETY DATA SHEET ALUMINIUM CLEANER

### SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1. Product identifier

Product name ALUMINIUM CLEANER  
Product number L020

#### 1.2. Relevant identified uses of the substance or mixture and uses advised against

Identified uses Cleaning agent.

#### 1.3. Details of the supplier of the safety data sheet

Supplier NIELSEN CHEMICALS  
RAWDON ROAD  
MOIRA  
SWADLINCOTE  
DERBYSHIRE  
DE12 6DA  
TEL: +44 (0) 1283 222277  
FAX: +44 (0) 1283 550621  
info@nielsenchemicals.com

#### 1.4. Emergency telephone number

Emergency telephone +44 (0) 777 8505 330

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

##### Classification

##### Physical hazards

Met. Corr. 1 - H290

##### Health hazards

Acute Tox. 3 - H301 Acute Tox. 2 - H310 Acute Tox. 3 - H331 Skin Corr. 1B - H314 Eye Dam. 1 - H318

##### Environmental hazards

Not Classified

##### Classification (67/548/EEC or 1999/45/EC)

T;R23/24/25. C;R35. Xi;R37.

#### 2.2. Label elements

##### Pictogram



##### Signal word

Danger

##### Hazard statements

**ALUMINIUM CLEANER**

H290 May be corrosive to metals.  
 H301 Toxic if swallowed.  
 H310 Fatal in contact with skin.  
 H314 Causes severe skin burns and eye damage.

**Precautionary statements**

P103 Read label before use.  
 P234 Keep only in original container.  
 P260 Do not breathe vapour/spray.  
 P271 Use only outdoors or in a well-ventilated area.  
 P280 Wear protective clothing, gloves, eye and face protection.  
 P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/doctor.  
 P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.  
 P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.  
 P304+P340 IF INHALED: Remove person to fresh air and keep 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.  
 P501 Dispose of contents/container in accordance with national regulations.

**Contains**

PHOSPHORIC ACID ...%, HYDROFLUORIC ACID 4.14 %

**Detergent labelling**

5 - < 15% phosphates, < 5% non-ionic surfactants

**2.3. Other hazards**

This substance is not classified as PBT or vPvB according to current EU criteria.

**SECTION 3: Composition/information on ingredients****3.2. Mixtures**

<b>PHOSPHORIC ACID ...%</b>	<b>10-30%</b>
CAS number: 7664-38-2 EC number: 231-633-2	
<b>Classification</b>	<b>Classification (67/548/EEC or 1999/45/EC)</b>
Skin Corr. 1B - H314	C;R34
Eye Dam. 1 - H318	
<b>HYDROFLUORIC ACID ...%</b>	<b>1-5%</b>
CAS number: 7664-39-3 EC number: 231-634-8	
<b>Classification</b>	<b>Classification (67/548/EEC or 1999/45/EC)</b>
Skin Corr. 1A - H314	T+;R26/27/28 C;R35
Acute Tox. 2 - H300	
Acute Tox. 1 - H310	
Acute Tox. 2 - H330	
<b>COCO ALKYLAMINE ETHOXYLATE</b>	<b>1-5%</b>
CAS number: 61791-14-8 EC number: 500-152-2	
<b>Classification</b>	<b>Classification (67/548/EEC or 1999/45/EC)</b>
Acute Tox. 4 - H302	Xn;R22. Xi;R41.
Eye Dam. 1 - H318	
Aquatic Chronic 2 - H411	

The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.

**SECTION 4: First aid measures**

## ALUMINIUM CLEANER

### 4.1. Description of first aid measures

#### **Inhalation**

Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. Get medical attention.

#### **Ingestion**

Rinse nose, mouth and throat with water. Do not induce vomiting. Get medical attention immediately. Give milk instead of water if readily available.

#### **Skin contact**

Remove contaminated clothing immediately and wash skin with soap and water. Get medical attention immediately.

#### **Eye contact**

Rinse immediately with plenty of water. Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 15 minutes. Get medical attention immediately. Continue to rinse.

### 4.2. Most important symptoms and effects, both acute and delayed

#### **Inhalation**

Coughing, chest tightness, feeling of chest pressure.

#### **Ingestion**

May cause chemical burns in mouth and throat.

#### **Skin contact**

Chemical burns.

#### **Eye contact**

Severe irritation, burning and tearing.

### 4.3. Indication of any immediate medical attention and special treatment needed

#### **Notes for the doctor**

Specific notes for fluoride derivatives: If calcium gluconate gel is available, rub it into affected skin. Massage continuously until pain disappears. Do not use this method for treatment of eyes. If ingested, give milk or calcium gluconate by mouth.

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## **SECTION 5: Firefighting measures**

### 5.1. Extinguishing media

#### **Suitable extinguishing media**

Use fire-extinguishing media suitable for the surrounding fire.

### 5.2. Special hazards arising from the substance or mixture

#### **Hazardous combustion products**

Thermal decomposition or combustion products may include the following substances: Carbon dioxide (CO<sub>2</sub>). Carbon monoxide (CO). Ammonia or amines. Fluorides.

### 5.3. Advice for firefighters

#### **Protective actions during firefighting**

No specific firefighting precautions known.

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## **SECTION 6: Accidental release measures**

### 6.1. Personal precautions, protective equipment and emergency procedures

#### **Personal precautions**

Wear suitable protective equipment, including gloves, goggles/face shield, respirator, boots, clothing or apron, as appropriate. Use suitable respiratory protection if ventilation is inadequate. Take care as floors and other surfaces may become slippery.

### 6.2. Environmental precautions

#### **Environmental precautions**

Do not discharge into drains or watercourses or onto the ground.

### 6.3. Methods and material for containment and cleaning up

#### **Methods for cleaning up**

## ALUMINIUM CLEANER

Absorb spillage with inert, damp, non-combustible material. Flush contaminated area with plenty of water. Wear suitable protective equipment, including gloves, goggles/face shield, respirator, boots, clothing or apron, as appropriate. Avoid the spillage or runoff entering drains, sewers or watercourses.

### 6.4. Reference to other sections

#### Reference to other sections

Wear protective clothing as described in Section 8 of this safety data sheet.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

#### Usage precautions

Read and follow manufacturer's recommendations. Wear suitable protective equipment for prolonged exposure and/or high concentrations of vapours, spray or mist. Contaminated clothing and shoes must be discarded. Avoid spilling. Avoid contact with skin and eyes.

### 7.2. Conditions for safe storage, including any incompatibilities

#### Storage precautions

Store at temperatures between 4°C and 40°C.

### 7.3. Specific end use(s)

#### Specific end use(s)

The identified uses for this product are detailed in Section 1.2.

## SECTION 8: Exposure Controls/personal protection

### 8.1. Control parameters

#### Occupational exposure limits

##### PHOSPHORIC ACID ...%

Long-term exposure limit (8-hour TWA): WEL 1 mg/m<sup>3</sup>

Short-term exposure limit (15-minute): WEL 2 mg/m<sup>3</sup>

##### HYDROFLUORIC ACID ...%

Long-term exposure limit (8-hour TWA): WEL 1.8 ppm 1.5 mg/m<sup>3</sup>

Short-term exposure limit (15-minute): WEL 3 ppm 2.5 mg/m<sup>3</sup>

WEL = Workplace Exposure Limit

#### PHOSPHORIC ACID ...% (CAS: 7664-38-2)

DNEL

Industry - ; Long term : 2.92

### 8.2. Exposure controls

#### Protective equipment



#### Appropriate engineering controls

Provide adequate ventilation.

#### Eye/face protection

Wear tight-fitting, chemical splash goggles or face shield.

#### Hand protection

Wear protective gloves made of the following material: Rubber (natural, latex). Neoprene. Polyvinyl chloride (PVC).

#### Other skin and body protection

Wear appropriate clothing to prevent any possibility of skin contact.

#### Hygiene measures

Wash contaminated clothing before reuse. Change work clothing daily before leaving workplace.

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### Respiratory protection

If ventilation is inadequate, suitable respiratory protection must be worn.

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### SECTION 9: Physical and Chemical Properties

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#### 9.1. Information on basic physical and chemical properties

##### Appearance

Liquid.

##### Colour

Colourless.

##### Odour

Mild.

##### pH

pH (diluted solution): 1.0

##### Relative density

1.07 @ 25°C

##### Solubility(ies)

Completely soluble in water.

#### 9.2. Other information

##### Other information

Not determined.

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### SECTION 10: Stability and reactivity

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#### 10.1. Reactivity

Reactions with the following materials may generate heat: Alkalis.

#### 10.2. Chemical stability

##### Stability

Stable at normal ambient temperatures and when used as recommended.

#### 10.3. Possibility of hazardous reactions

Not determined.

#### 10.4. Conditions to avoid

Reacts with alkalis and generates heat.

#### 10.5. Incompatible materials

##### Materials to avoid

Strong alkalis. Alkalis - inorganic.

#### 10.6. Hazardous decomposition products

Thermal decomposition or combustion products may include the following substances: Carbon monoxide (CO). Carbon dioxide (CO<sub>2</sub>). Fluorides. Ammonia or amines.

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### SECTION 11: Toxicological information

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#### 11.1. Information on toxicological effects

##### Acute toxicity - oral

###### ATE oral (mg/kg)

120.19230769

##### Acute toxicity - dermal

###### ATE dermal (mg/kg)

120.77294686

##### Acute toxicity - inhalation

###### ATE inhalation (gases ppm)

## ALUMINIUM CLEANER

2415.4589372

**ATE inhalation (vapours mg/l)**

12.07729469

**ATE inhalation (dusts/mists mg/l)**

1.20772947

**Inhalation**

Toxic by inhalation.

**Ingestion**

Swallowing concentrated chemical may cause severe internal injury. Causes severe burns.

**Skin contact**

May be absorbed through the skin. Toxic: danger of serious damage to health by prolonged exposure in contact with skin. Causes severe burns.

**Eye contact**

Causes severe burns.

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**SECTION 12: Ecological Information**

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**Ecotoxicity**

Not regarded as dangerous for the environment.

**12.1. Toxicity****Acute toxicity - fish**

Not determined.

**Ecological information on ingredients.****COCO ALKYLAMINE ETHOXYLATE****Acute toxicity - fish**

LC50, 96 hours: 5.6 mg/l, Onchorhynchus mykiss (Rainbow trout)

**Acute toxicity - aquatic invertebrates**

, 48 hours: 12.1 mg/l, Daphnia magna

**12.2. Persistence and degradability****Persistence and degradability**

The product is expected to be biodegradable.

**Ecological information on ingredients.****COCO ALKYLAMINE ETHOXYLATE****Persistence and degradability**

The product is not readily biodegradable.

**12.3. Bioaccumulative potential**

The product is not bioaccumulating.

**12.4. Mobility in soil****Mobility**

The product is soluble in water.

**12.5. Results of PBT and vPvB assessment**

This product does not contain any substances classified as PBT or vPvB.

**12.6. Other adverse effects**

Not determined.

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**SECTION 13: Disposal considerations**

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## ALUMINIUM CLEANER

### 13.1. Waste treatment methods

#### Disposal methods

Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority.

### **SECTION 14: Transport information**

#### 14.1. UN number

UN No. (ADR/RID)	2922
UN No. (IMDG)	2922
UN No. (ICAO)	2922

#### 14.2. UN proper shipping name

Proper shipping name (ADR/RID)	CORROSIVE LIQUID, TOXIC, N.O.S. (hydrofluoric acid)
Proper shipping name (IMDG)	CORROSIVE LIQUID, TOXIC, N.O.S. (hydrofluoric acid)
Proper shipping name (ICAO)	CORROSIVE LIQUID, TOXIC, N.O.S. (hydrofluoric acid)
Proper shipping name (ADN)	CORROSIVE LIQUID, TOXIC, N.O.S. (hydrofluoric acid)

#### 14.3. Transport hazard class(es)

IMDG class	8 + 6.1
ICAO class/division	8 + 6.1

#### Transport labels



#### 14.4. Packing group

ADR/RID packing group	II
IMDG packing group	II
ICAO packing group	II

#### 14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant

No.

#### 14.6. Special precautions for user

Tunnel restriction code (E)

#### 14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Not applicable.

### **SECTION 15: Regulatory information**

#### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

##### EU legislation

Commission Regulation (EU) No 453/2010 of 20 May 2010. Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures (as amended).

#### 15.2. Chemical safety assessment

### **SECTION 16: Other information**

#### General information

Only trained personnel should use this material.

**ALUMINIUM CLEANER****Revision date** 12/06/2015**Revision** 3.0**Supersedes date** 16/08/2013**Risk phrases in full**

R22 Harmful if swallowed.

R23/24/25 Toxic by inhalation, in contact with skin and if swallowed.

R26/27/28 Very toxic by inhalation, in contact with skin and if swallowed.

R34 Causes burns.

R35 Causes severe burns.

R37 Irritating to respiratory system.

R41 Risk of serious damage to eyes.

**Hazard statements in full**

H290 May be corrosive to metals.

H300 Fatal if swallowed.

H301 Toxic if swallowed.

H302 Harmful if swallowed.

H310 Fatal in contact with skin.

H314 Causes severe skin burns and eye damage.

H318 Causes serious eye damage.

H330 Fatal if inhaled.

H331 Toxic if inhaled.

H411 Toxic to aquatic life with long lasting effects.

**Disclaimer**

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty, guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.