



L. CORNELISSEN & SON

Artists' Colourmen

Suppliers of Materials for Painters, Gilders & Printmakers

Safety Data Sheet according to Directive 91/155/EC

Revision Date: September 2014

1) Identification of the substance/preparation and the company

Trade Name: Cornelissen Alumina Hydrate Light.

Application: Artists' Medium.

Manufacturer/Supplier:

L Cornelissen & Son Ltd
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London WC1B 3RY

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www.cornelissen.com

2) Composition/Information on ingredients

Aluminium Hydroxide Concentration >95%

REACH Registration No: 01-2119529246-39-0009

CAS No: 21645-51-2

EC No: 244-492-7

Additional information: Main impurities: iron oxide, calcium oxide, sodium oxide and silica.

3) Hazards Identification

Classification according to Regulation (EC) No 1272/2008

Classification

Not a hazardous substance or mixture.

Label Elements

Not a hazardous substance or mixture.

Information concerning particular hazards for human and environment

Not a health hazard under normal conditions of use and as delivered.

High dust concentration may cause mechanical irritation of the eyes, skin and respiratory tract

Releases humidity on decomposition, do not heat in enclosed containers

4) First Aid Measures

If inhaled: In case of dust inhalation remove person to ventilated area and keep calm. In case of ongoing discomfort consult a physician.

In case of skin contact: In case of large exposures wash with soap and water.

In case of eye contact: If particles come into contact with eyes treatment for mechanical irritation may be required; flush thoroughly with water, in case of ongoing discomfort consult a physician.

If swallowed: Wash mouth with water.

Most important symptoms and effects, both acute and delayed: N/A

Indication of any immediate medical attention and special treatment needed: N/A

5) Fire Fighting Measures

Not flammable

Extinguishing media

Suitable extinguishing media: Use extinguishing agents appropriate for surrounding materials.

For safety reasons unsuitable extinguishing agents: None

Special hazards arising from the substance or mixture

None

Advice for fire fighters

Fire fighters should wear approved personal protective equipment for the surrounding fired material.

6 Accidental Release Measures

Personal Precautions, Protective Equipment and Emergency Procedures

Personal precautions: See protection measures listed in Section 8.

Environmental precautions

Environmental precautions: Avoid dispersal of spilled material and runoff. Avoid creating dusty conditions and prevent wind dispersal. Collect material for recycling if possible.

Methods and Materials for Containment and Cleaning Up

Methods and materials: Use vacuum cleaner if possible.

7) Handling and Storage

Precautions for Safe Handling

Advice on safe handling: Ensure good ventilation/local exhaust at the workplace in the case of operations generating dust. Avoid creating dusty conditions. Avoid inhalation and skin and eye contact. Wear appropriate personal protective equipment.

Hygiene measures: General industrial hygiene practice.

Safe Storage

Storage conditions: Store in a dry area.

8) Exposure/Personal Protection

Exposure Limits

Control Parameters:

Occupational exposure limits (air): generally same as for nuisance dust

Germany: 10*/3** mg/m³ (*inhalable dust; ** respirable dust)

Great Britain: 10*/4** mg/m³ (*inhalable dust, **respirable dust)

United States: OSHA 15 mg/m³ (total dust); 5 mg/m³ TWA (respirable dust)

Some additional EU countries: 10 mg/m³

Exposure controls

Ensure good ventilation/local exhaust at the workplace in the case of operations generating dust. Avoid work practises which generate dust. Avoid inhalation and eye contact.

Personal protective equipment

Respiratory equipment: not required under recommended conditions of use. In case dust is generated, use personal protective equipment, dust filter P2 or if fine particles P3.

Use protective goggles and gloves when handling the substance and appropriate work clothes.

Environmental exposure controls

Avoid creating dusty conditions and prevent wind dispersal

9) Physical and chemical Properties

Form: White Solid Powder

Odour: Odourless

pH: Not relevant

Melting point/Melting range >1000°C

Boiling Point: Not relevant

Flash point:	Not relevant
Flammability (solid, gas):	Not relevant
Explosion hazard:	Not relevant`
Density at 20°C:	2.42g/cm ³
Water solubility:	Almost insoluble

10) Stability and Reactivity

Reactivity:	Stable under normal conditions of use, storage and transport. When heated undergoes gradual transformation to aluminium oxide and may release steam.
Chemical stability:	No decomposition if stored and applied as directed.
Possibility of hazardous reactions:	Stable under normal conditions.
Conditions to avoid:	None.
Incompatible materials:	None.
Hazardous decomposition products:	None.

11) Toxicological Information

Toxicokinetics, metabolism and distribution:

Oral uptake < 0.1%, nearly insoluble in lung fluids, most aluminium hydroxide absorbed is rapidly excreted through urine, main deposit in body is in bone structure. Used as an antacid and filler for some medicines. Used as adjuvant for some vaccines.

Acute effects (acute toxicity, irritation and corrosivity):

No acute effects

Acute toxicity:

LD50 (oral): >2000mg/kg bwt (rats)

LD50 (dermal): No effect

LD50 (inhalative): >2,3 mg/l (rats)

Specific symptoms in animal tests:

After swallowing: None

After skin contact: None

After inhalation: None

Irritation/Corrosion effects:

Irritant effects on skin: No effects

Irritant effect on eyes: No effects

Sensitisation:

After skin contact: None

After inhalation: None

Toxicity after repeated intake (sub acute, sub chronic, chronic):

Sub acute oral Toxicity: None, calculated DNEL 6,85 mg/kg bwt/day

Sub acute inhalative Toxicity: None, see occupational exposure limits respirable

Calculated DNEL 3,59 mg/m³**CMR-effects (carcinogenic, mutagenic and reproductive effects).**

Carcinogenicity: None

Mutagenicity: None

Reproductive toxicity: None

Assessment of CMR properties: Not classified for CMR

Product components not listed under IARC/NTP/ACGIH (ingredient carcinogenicity)

Practical experience:

Observations relevant for classification: None

Other observations: None

12) Ecological Information

Toxicity

Product/ ingredient name	Test	Result	Species	Exposure
Aluminium hydroxide	Fish – OECD TG 203	>100 mg/l	Salmo trutta	pH 8
Aluminium hydroxide	Daphnia – OECD TG202	>100 mg/l	Daphnia Magna	pH 8
Aluminium hydroxide	Algae – OECD TG 201	>100 mg/l	Selenastrum Capricornutum	pH 8

Mobility: Not mobile under normal environmental conditions

Persistence: Not relevant for metal compounds

Biological degradability: Not degradable

Bioaccumulative potential: Not bio accumulative

Long term ecotoxicity: Not classified for ecotoxicity

Results of PBT and vPvB assessment: Not relevant for metal compounds

Other adverse effects: No

Final assessment

No acute or chronic classification is appropriate for Al metal massive based on non-toxic results below the Ecotoxicity Reference Value (ERV) of tests with aluminium metal, oxide and hydroxide at loadings of 100 mg/l at pH 8-8.5 (maximum solubility of

As expected). Aluminium in soil or the aquatic environment comes from natural sources. Local sources have an insignificant contribution and impact on environment apart from limited sources.

13) Disposal Information

Waste Treatment Methods

In authorised dumps, in accordance with Local Authority requirements.

Treat contaminated containers in the same way as product.

14) Transport Information

Not regulated as a dangerous good.

Not classified as dangerous in the meaning of transport regulations.

15) Regulatory Information

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

No compulsory identification under EC directives and national regulations.

Chemical Safety Assessment carried out.

16) Other information

This product should be stored, handled and used in accordance with good hygiene practices and in conformity with any legal regulations.

To best of our knowledge the information contain herein is accurate. However, neither the above supplier assumes any liability whatsoever for the accuracy or completeness of the information herein

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist