



L. CORNELISSEN & SON

Artists' Colourmen

Suppliers of Materials for Painters, Gilders & Printmakers

Safety Data Sheet according to Directive 91/155/EC

Revision Date: October 2013

1) Identification of the substance/preparation and the company

Trade Name: Cornelissen Acetone

Application: Artists' Solvent

Manufacturer/Supplier:

L Cornelissen & Son Ltd
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2) Composition/Information on ingredients

Acetone

CAS No: 67-64-1

EC No: 200-662-2

3) Hazards Identification

Classification

Classification according to Regulation (EC) No 1272/2008

<i>Hazard Class</i>	<i>Hazard Category</i>	<i>Statements</i>
Flammable liquids	Category 2	H225
Serious eye damage/eye irritation	Category 2	H319
Specific target organ toxicity - single exposure	Category 3	H336

Classification according to EU Directives 67/548/EEC or 1999/45/EC

<i>Hazard Symbol/ Category of Danger</i>	<i>Risk phrases</i>
Highly inflammable (F)	R11
Irritant	R36, R66, R67

Label elements

Labelling according to Regulation (EC) No 1272/2008

Hazard Symbols



Signal Word: Danger

Hazard Statements: H225 Highly flammable liquid and vapour.
H319 Causes serious eye irritation.
H336 May cause drowsiness or dizziness

Precautionary statements

Prevention: P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
P233 Keep container tightly closed.
P240 Ground/bond container and receiving equipment.
P243 Take precautionary measures against static discharge.
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

Response: P303+P361+P353
If on skin (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower.
P304 + P340 If Inhaled: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

Storage: P403 + P235 Store in a well-ventilated place. Keep cool.

4) First Aid Measures

General advice: Remove from exposure, lie down. Take off all contaminated clothing immediately.

If inhaled: Remove to fresh air. If breathing is irregular or stopped, administer artificial respiration. If unconscious place in recovery position and seek medical advice.

In case of skin contact: Wash off immediately with soap and plenty of water. Call a physician if irritation persists.

In case of eye contact: Consult an eye specialist immediately. Rinse immediately with plenty of water, also under the eyelids, for at least 10 minutes.

If swallowed: Clean mouth with water and drink afterwards plenty of water. Never give anything by mouth to an unconscious person. If swallowed, do not induce vomiting - seek medical advice. If a

person vomits when lying on his back, place him in the recovery position.

5) Fire Fighting Measures

Extinguishing media

- Suitable extinguishing media: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
- Unsuitable extinguishing media: High volume water jet
- Special hazards arising from the substance or mixture
- Specific hazards during fire fighting: Vapours are heavier than air and may spread along floors. Vapours may form explosive mixtures with air. Flash back possible over considerable distance. In case of fire hazardous decomposition products may be produced such as: Carbon monoxide, Carbon dioxide (CO₂).

Advice for fire fighters

- Special protective equipment for fire fighters: In the event of fire, wear self-contained breathing apparatus. Wear appropriate body protection (full protective suit)
- Further information: Cool closed containers exposed to fire with water spray. Heating will cause a pressure rise - with risk of bursting. Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

6 Accidental Release Measures

Personal Precautions, Protective Equipment and Emergency Procedures

- Personal precautions: Use personal protective equipment. Keep away unprotected persons. Provide adequate ventilation. Keep away from heat and sources of ignition. Avoid contact with skin and eyes. Do not breathe vapours or spray mist. For personal protection see section 8.

Environmental precautions

- Environmental precautions: Do not flush into surface water or sanitary sewer system. Avoid subsoil penetration. If the product contaminates rivers and lakes or drains inform respective authorities.

Methods and Materials For Containment and Cleaning Up

- Methods and materials: Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).
- Further information: Treat recovered material as described in the section 'Disposal considerations'.

7) Handling and Storage

Precautions for Safe Handling

Advice on safe handling: Keep container tightly closed. Ensure adequate ventilation. Use personal protective equipment. Avoid contact with the skin and the eyes. Do not breathe vapours or spray mist. Emergency eye wash fountains and emergency showers should be available in the immediate vicinity.

Hygiene measures: Keep away from food, drink and animal feeding stuffs. Smoking, eating and drinking should be prohibited in the application area. Wash hands before breaks and at the end of workday. Take off all contaminated clothing immediately. Avoid contact with the skin and the eyes. Do not breathe vapours or spray mist.

Conditions for Safe Storage, Including Any Incompatibilities

Requirements for storage areas and containers: Keep in an area equipped with solvent resistant flooring. Suitable materials for containers: Mild steel; Stainless steel; polyethylene.

8) Exposure/Personal Protection

Derived No Effect Level (DNEL)/Derived Minimal Effect Level (DMEL)

DNEL

Workers, Systemic effects, Skin contact Long-term exposition: 186 mg/kg bw/day

DNEL

Workers, Systemic effects, Inhalation Long-term exposition: 1210 mg/m³

DNEL

Workers, Local effects, Inhalation Short-term exposition: 2420 mg/m³

DNEL

Consumers, Systemic effects, Skin contact Long-term exposition: 62 mg/kg bw/day

DNEL

Consumers, Systemic effects, Inhalation Long-term exposition: 200 mg/m³

DNEL

Consumers, Systemic effects, Ingestion Long-term exposition: 62 mg/kg bw/day

Predicted No Effect Concentration (PNEC)

Fresh water: 10.6 mg/l

Marine water: 1.06 mg/l

Intermittent releases: 21 mg/l

Sewage treatment plant (STP): 100 mg/l

Fresh water sediment: 30.4 mg/kg
Marine sediment: 3.04 mg/kg
Soil: 29.5 mg/kg

Other Occupational Exposure Limit Values

EU ELV, Time Weighted Average (TWA): 500 ppm, 1,210 mg/m³
Indicative
EH40 WEL, Time Weighted Average (TWA): 500 ppm, 1,210 mg/m³
EH40 WEL, Short Term Exposure Limit (STEL): 1,500 ppm, 3,620 mg/m³
ELV (IE), Time Weighted Average (TWA): 500 ppm, 1,210 mg/m³
Indicative OELV

Exposure Controls

Appropriate engineering controls

Refer to protective measures listed in sections 7 and 8.

Personal protective equipment

Respiratory protection

Advice: Required, if exposure limit is exceeded (e.g. OEL). In case of insufficient ventilation, wear suitable respiratory equipment. Breathing apparatus with filter. Recommended Filter type:AX

Hand protection

Advice: Wear suitable gloves. The glove material has to be impermeable and resistant to the product / the substance / the preparation. As the product is a mixture of several substances, the durability of the glove materials cannot be calculated in advance and has to be tested before use. Protective gloves should be replaced at first signs of wear.

Material: butyl-rubber

Break through time: >= 4 h

Glove thickness: 0.5 mm

Eye protection

Advice: Tightly fitting safety goggles

Skin and body protection

Advice: Solvent resistant protective clothing

Environmental exposure controls

General advice: Do not flush into surface water or sanitary sewer system.

Avoid subsoil penetration.

If the product contaminates rivers and lakes or drains inform respective authorities.

9) Physical and chemical Properties

Form:	liquid
Colour:	colourless
Odour:	sweet
Odour Threshold:	ca. 13 ppm
pH:	not applicable
Melting point/range:	-94.7 °C
Boiling point/boiling range:	55.8 - 56.6 °C
Flash point:	-18 °C (closed cup)
Evaporation rate:	Currently we do not have any information from our supplier about this.
Flammability (solid, gas):	Currently we do not have any information from our supplier about this.
Upper explosion limit:	13.0 %(V)
Lower explosion limit:	2.1 %(V)
Vapour pressure:	247 hPa (20 °C) 812 hPa (50 °C)
Relative vapour density:	2.0
Relative density:	Currently we do not have any information from our supplier about this.
Density:	0.791 g/cm ³ (20 °C)
Water solubility:	completely miscible
Partition coefficient: n-octanol/water:	log Kow -0.24 (measured)
Auto-ignition temperature:	540 °C
Thermal decomposition:	Currently we do not have any information from our supplier about this.
Viscosity, dynamic:	0.33 mPa.s (20 °C)
Explosive properties:	EU legislation: Currently we do not have any information from our supplier about this.
Explosivity:	Formation of explosive air/vapour mixtures is possible.
Oxidizing properties:	Currently we do not have any information from our supplier about this.
Other information	
Molecular weight:	58.09 g/mol
Refractive index:	1.358 - 1.359

10) Stability and Reactivity

Reactivity

Advice: No information available.

Chemical stability

Advice: No decomposition if stored and applied as directed.

Possibility of hazardous reactions

Hazardous reactions: No information available.

Conditions to avoid

Conditions to avoid: Keep away from heat and sources of ignition.

Thermal decomposition: Currently we do not have any information from our supplier about this.

Incompatible materials

Materials to avoid: Strong reducing agents, Oxidizing agents, Halogenated compounds, Alkali metals, Ethanolamine, Hydrogen peroxide.

Hazardous decomposition products

Hazardous decomposition products: Under fire conditions: Carbon oxides.

11) Toxicological Information

Acute Toxicity

Oral

LD50: 5800 mg/kg (rat)
Cause pain in mouth and throat, nausea, vomiting, dizziness, headache and risk of unconsciousness.

Inhalation

LC50: ca. 76 mg/l (rat; 4 h)
May cause pain in nose and throat, nausea, dizziness, headache, deteriorate reactivity and at high concentration unconsciousness.

Dermal

LD50: > 15800 mg/kg (rabbit)

Irritation

Skin

Result: Repeated exposure may cause skin dryness or cracking.

Eyes

Result: Irritating to eyes. (rabbit)

May cause corneal damage.

Sensitisation

Result: not sensitizing (guinea pig)

CMR Properties

Carcinogenicity: Animal testing did not show any carcinogenic effects.

Mutagenicity: Tests on bacterial or mammalian cell cultures did not show mutagenic effects.

Reproductive toxicity: Animal testing did not show any effects on fertility.

Further information

Experience with human exposure: Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting. Chronic exposure may cause dermatitis. Chronic inhalation causes tiredness, headache and rhinitis.

12) Ecological Information

Acute Toxicity

Fish

LC50: 5540 mg/l (Oncorhynchus mykiss; 96 h)

LC50: 11000 mg/l (Alburnus alburnus; 96 h)

Toxicity to daphnia and other aquatic invertebrates

LC50: 8800 mg/l (Daphnia magna; 48 h)

Algae

NOEC: 430 mg/l (algae; 96 h)

Chronic toxicity

Aquatic invertebrates

2212 mg/l (Daphnia magna (Water flea); 8 d)

Persistence and degradability

Persistence

Result: no data available

Biodegradability

Result: 84 % (Exposure Time: 20 d)
Readily biodegradable

Result: 91 % (Exposure Time: 28 d)(OECD 301 B)

Bioaccumulative Potential

Result: BCF: < 10
Does not bioaccumulate.

Mobility in Soil

Mobility: The product evaporates readily.

Results of PBT and vPvB Assessment

Result: This substance is not considered to be persistent, bioaccumulating nor toxic (PBT)., This substance is not considered to be very persistent nor very bioaccumulating (vPvB).

Other Adverse Effects

Biochemical Oxygen Demand (BOD)

Result: 1900 mg/g (Incubation time: 5 d)

Chemical Oxygen Demand (COD)

Result: 2100 mg/g

Additional ecological information

Result: Do not flush into surface water or sanitary sewer system. Avoid subsoil penetration.

13) Disposal Information

Waste Treatment Methods

Product: Disposal together with normal waste is not allowed. Special disposal required according to local regulations. Do not let product enter drains. Contact waste disposal services.

Contaminated packaging: Empty contaminated packagings thoroughly. They can be recycled after thorough and proper cleaning. Do not burn, or use a cutting torch on, the empty drum. Risk of explosion.

Dispose in accordance with all applicable local & national regulations.

14) Transport Information

UN number: 1090

UN proper shipping name	ADR:	ACETONE
	RID:	ACETONE
	IMDG:	ACETONE

Transport Hazard Class(es)

ADR-Class (Labels; Classification Code; Hazard identification No; Tunnel restriction code): 3 3; F1; 33; (D/E)

RID-Class (Labels; Classification Code; Hazard identification No): 3 3; F1; 33

IMDG-Class (Labels; EmS): 3 3; F-E, S-D

Packaging group

ADR:	II
RID:	II
IMDG:	II

Environmental hazards	
Labeling according to 5.2.1.8 ADR:	no
Labeling according to 5.2.1.8 RID:	no
Labeling according to 5.2.1.6.3 IMDG:	no
Classification as environmentally hazardous according to 2.9.3 IMDG:	no
Classified as "P" according to 2.10 IMDG:	no

15) Regulatory Information

Full text of R-phrases referred to under sections 2 and 3.

R11	Highly flammable.
R36	Irritating to eyes.
R66	Repeated exposure may cause skin dryness or cracking.
R67	Vapours may cause drowsiness and dizziness.

Full text of H-Statements referred to under sections 2 and 3.

H225	Highly flammable liquid and vapour.
H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.

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