SAFETY DATA SHEET

In accordance with 1907/2006 annex II 2015/830 and 1272/2008
(All references to EU regulations and directives are abbreviated into only the numeric term)
Revision date 2019-10-02
Replaces issued SDS 2017-10-30
Version number 3.0

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

1.1. Product identifier

Trade name	Aceton
CAS No	67-64-1
EC No	200-662-2
Index No	606-001-00-8
REACH registration number	01-2119471330-49

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

Identified uses	Solvents

1.3. Details of the supplier of the safety data sheet

Company	Arom-dekor Kemi AB Europavägen 1 51291 SEXDREGA Sweden
Telephone	0320 60500
E-mail	info@aromdekor.se

1.4. Emergency telephone number

Acute cases: Call 112, request poison information.

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Flammable liquids (Category 2), H225
Irritates eyes (Category 2), H319
Specific target organ toxicity - Single exposure (Category 3, Narcosis effect), H336

2.2. Label elements

Hazard pictogram

Signal word	Danger
Hazard statements	
H225	Highly flammable liquid and vapour
H319	Causes serious eye irritation
H336	May cause drowsiness or dizziness
Precautionary statements	
P102	Keep out of reach of children
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking
P271	Use only outdoors or in a well-ventilated area
P280	Wear protective gloves and eye protection
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
P405	Store locked up
P501	Dispose of contents and container to authorised waste disposal facility

Supplemental hazard information

EUH066 Repeated exposure may cause skin dryness or cracking.

2.3. Other hazards

This product does not contain any substances that are assessed to be a PBT or a vPvB

SECTION 3: Composition/information on ingredients

3.1. Substances

Constituent	Classification	Concentration
ACETONE		
CAS No: 67-64-1 EC No: 200-662-2 Index No: 606-001-00-8 REACH: 01-2119471330-49	Flam Liq 2, Eye Irrit 2, STOT SE 3*drow*; H225, EUH066, H319, H336	≤100 %

Explanations to the classification and labelling of the ingredients are given in Section 16e. Official abbreviations are printed in normal font. Text in italics are specifications and/or complements used in the calculation of the classification of this mixture, see Section 16b.

SECTION 4: First aid measures

4.1. Description of first aid measures

Generally

In case of concern, or if symptoms persist, call a doctor/physician.
Never attempt to administer liquid, or anything else, to an unconscious person via the mouth.

Upon breathing in

Allow the injured person to rest in a warm place with fresh air, if symptoms persist seek medical attention.
Contact a doctor immediately if breathing problems occur.

Upon eye contact

Rinse the eye for several minutes with lukewarm water. If irritation persists call a doctor/ophthalmologist.

Upon skin contact

Normal washing of the skin is considered sufficient; If nevertheless symptoms do occur, contact a physician.

Upon ingestion

Rinse mouth out thoroughly first with water, then SPIT OUT the rinse water. Drink at least half a litre of water and seek medical advice. DO NOT INDUCE VOMITING.

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

Upon breathing in

May cause drowsiness or disorientation.

Upon eye contact

Irritates the eyes.

Upon skin contact

Can cause dry or cracked skin during prolonged/frequently repeated contact.

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

Symptomatic treatment.

Upon contact with a doctor, make sure to have the label or this safety data sheet with you.

SECTION 5: Fire-fighting measures

5.1. Extinguishing media

Recommended extinguishing agents

Extinguish with water mist, powder, carbon dioxide or alcoholresistant foam.

Unsuitable extinguishing agents

May not be extinguished with water dispersed under high pressure.

5.2. Special hazards arising from the substance or mixture

Inflammable.

Produces fumes containing harmful gases (carbon monoxide and carbon dioxide) when burning.

Emits flammable vapours which may form an explosive mixture with air.

5.3. Advice for fire-fighters

Any extinguishing should be executed from a good distance, due to the development of intense heat.

Protective measures should be taken regarding other material at the site of the fire.

In case of fire use a respirator mask.

Wear full protective clothing.

Contain and collect extinguishing liquid.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Note, risk of ignition and explosion.

Switch off equipment which has an exposed flame, glows, or has a heat source of some other kind.

Note, risk for formation of sparks due to static electricity. Do not remove clothing in a room where spillage has occurred.

Switch off power at the main switch. Do not use the power switch in the room where the spillage has occurred.

Keep unauthorized and unprotected people at a safe distance.

Avoid inhalation and exposure to skin and eyes.

Use recommended safety equipment, see section 8.

Gas mask with an A type filter (brown) may be required when decontaminating spillage.

Ensure good ventilation.

Use a chemical protection suit when cleaning up large spills.

6.2. Environmental precautions

Avoid release to drains, soil or watercourses.

Please contact involved authorities if unintended release occurs.

Prevent from entering sewers, basements and pits, or any place where gas accumulation could be dangerous.

6.3. Methods and material for containment and cleaning up

Evacuate the area and ventilate fumes. Note, risk for explosion.

Residues left behind after cleaning shall be treated as hazardous waste. For further information, contact the local authority sanitisation works. Present this safety data sheet.

Absorb the liquid with an inert absorbent, vermiculite, for example. Collect the material for disposal at a waste disposal facility.

Wash off with large quantities of water (50-100 volume parts). Dry up afterwards.

6.4. Reference to other sections

See section 8 and 13 for personal protection equipment and disposal considerations.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Store this product separately from food items and keep it out of the reach of children and pets.
Work in order to avoid spillage. If spillage does occur, address it immediately in accordance with the directions specified in Section 6 of this safety data sheet.
Open fires, hot objects, spark formation, or other sources of ignition, are not allowed in the premises where this product is handled. Prevent build up of static electricity by utilising a semi-conducting floor and shoe soles and keep humidity above 50%.
Do not inhale fumes and avoid contact with skin and eyes.
Handle in premises which have modern ventilation standards.
Do not eat, drink or smoke in premises where this product is handled.
Wash your hands after using the product.
Remove contaminated clothing.
Wash contaminated clothing before reuse.

7.2. Conditions for safe storage, including any incompatibilities

This product should be stored well out of reach of young children and kept safely apart from products intended for consumption.
The product should be stored in a manner which prevents hazards to health and the environment. Avoid exposure to humans and animals and do not discharge the product in a sensitive environment.
Always use sealed and visibly labeled packages.
Store in a well-ventilated area, not above eye-level.
Store only in the original package.
Do not store above normal room temperature.
Store as flammable liquid.
Do not store close to incompatible materials (see section 10.5).

7.3. Specific end uses

See identified uses in Section 1.2.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters
8.1.1. National limit values
ACETONE

United Kingdom (EH40/2005)

Time-weighted-average exposure limit (TWA) 500 ppm / 1210 mg/m^3
Short term exposure limit (STEL) 1500 ppm / 3620 mg/m^3

DNEL
ACETONE

	Type of exposure	Route of exposure	Value
Worker	Acute Local	Inhalation	2420 mg/m^3
Consumer	Chronic Systemic	Inhalation	200 mg/m^3
Worker	Chronic Systemic	Dermal	186 mg/kg
Worker	Chronic Systemic	Inhalation	1210 mg/m^3
Consumer	Chronic Systemic	Oral	62 mg/kg
Consumer	Chronic Systemic	Dermal	62 mg/kg

PNEC
ACETONE

Environmental protection target	PNEC value
Fresh water	10.6 mg/l
Freshwater sediments	30.4 mg/kg dwt
Marine water	1.06 mg/l
Marine sediments	3.04 mg/kg dwt
Microorganisms in sewage treatment	100 mg/l
Soil (agricultural)	29.5 mg/kg
Intermittent	21 mg/L

8.2. Exposure controls

In terms of minimizing risks, attention must be paid to both the physical and health hazards (see Sections 2, 10 and 11) of this product according to EU directives 89/391 and 98/24 and national occupational legislation.

8.2.1. Appropriate engineering controls

Handle in premises which have modern ventilation standards.
Use local exhaust ventilation.
Emergency showers and eye-rinsing facilities must be available at the workplace.

Eye/face protection

Eye protection should be worn if there is any danger of direct exposure or splashing.

Skin protection

Protect all exposed skin from coming into contact with the product.
Do not use clothing made of synthetic material which may give rise to static electricity.
Use protective gloves of butyl rubber, Viton or fluorine rubber, or get advice from an occupational medical expert about alternative materials. Show this safety data sheet.
Use shoes with a semiconducting sole in order to avoid the build up of a charge of static electricity.
Use suitable protective clothing.

Respiratory protection

Use proper protective breathing equipment in case of insufficient ventilation.
A breathing mask of the A filter (brown) type, may be required.

8.2.3. Environmental exposure controls

Work with the product should take place in such a way that the product does not get into drains, waterways, soil and air.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

a)	Appearance	Form: liquid. Colour: Transparent.
b)	Odour	characteristic
c)	Odour threshold	Not indicated
d)	pH	Not indicated
e)	Melting point/freezing point	-94 °C
f)	Initial boiling point and boiling range	56 °C
g)	Flash point	-17.0 °C
h)	Evaporation rate	Not indicated
i)	Flammability (solid, gas)	Not applicable
j)	Upper/lower flammability or explosive limits	Not indicated
k)	Vapour pressure	24.53 kPa
l)	Vapour density	Not indicated
m)	Relative density	0.791 kg/L
n)	Solubility	Solubility in water: Unlimited solubility
o)	Partition coefficient: n-octanol/water	Not applicable
p)	Auto-ignition temperature	465 °C
q)	Decomposition temperature	Not indicated
r)	Viscosity	Not indicated
s)	Explosive properties	Not applicable
t)	Oxidising properties	Not applicable

9.2. Other information

No data available

SECTION 10: Stability and reactivity

10.1. Reactivity

The product contains no substances which can lead to hazardous reactions at normal use.

10.2. Chemical stability

The product is stable at normal storage and handling conditions.

10.3. Possibility of hazardous reactions

No hazardous reactions known.

10.4. Conditions to avoid

Avoid heat, sparks and open flames.
Protect from heat and direct sunlight.

10.5. Incompatible materials

Avoid strong bases and oxidizers.

10.6. Hazardous decomposition products

None under normal conditions.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

This product's main risk is its flammability.
Note that the product dehydrates the skin.
Note, the product will affect discernment.

Acute toxicity

The product is not classified as acutely toxic.

ACETONE

LD50 rabbit 24h: 20000 mg/kg Dermally
LD50 rabbit 24h: > 15700 mg/kg Dermally
LC50 rat 4h: 76 mg/L Inhalation
LD50 rat 24h: 5800 mg/kg Orally

Skin corrosion/irritation

Can cause dry or cracked skin during prolonged/frequently repeated contact.

Serious eye damage/irritation

Causes serious eye irritation.

Respiratory or skin sensitisation

The product does not contain any allergenic substance but it may enhance the effect of naturally occurring allergens.
Eczema (atopical or unidentified) may occur.
Degreases the skin.

Germ cell mutagenicity

The product is not classified as mutagen.

Carcinogenicity

The product is not classified as carcinogenic.

Reproductive toxicity

The product is not classified as a reproductive toxicant .

STOT-single exposure

May cause drowsiness or disorientation.

STOT-repeated exposure

No known hazards for repeated exposure.

Aspiration hazard

The product is not classified as being toxic for aspiration.

SECTION 12: Ecological information

12.1. Toxicity

No ecological damage is known or expected in the event of normal use.
Avoid larger spills in soil, water and drains.

ACETONE

LC50 Rainbow trout (Oncorhynchus mykiss) 96h: 5540 mg/L
LC50 fathead minnow (Pimephales promelas) 96h: 7163 mg/l
EC50 Algae 48 h: 3400 mg/L
LC50 Freshwater water flea (Daphnia magna) 48h: 6100 mg/L
LC50 Bluegill (Lepomis macrochirus) 96h: 8300 mg/l
EC50 Freshwater water flea (Daphnia magna) 48 h: 23.5 mg/L
NOEC Freshwater water flea (Daphnia magna) 21d: > 79 mg/l
LC50 Water flea (Daphnia pulex) 48h: 8800 mg/l

12.2. Persistence and degradability

The product degrades in the natural environment.

12.3. Bioaccumulative potential

Neither this product, nor its contents, accumulates in nature.

12.4. Mobility in soil

The product is miscible with water and is therefore variable in soil and water.

12.5. Results of PBT and vPvB assessment

This product does not contain any substances that are assessed to be a PBT or a vPvB.

12.6. Other adverse effects

Data lacking.

SECTION 13: Disposal considerations

13.1. Waste treatment methods
Waste handling of the product

May not be disposed of with household waste.
This product is not usually recycled.
Avoid discharge into sewers.
Discarded products must be disposed of as hazardous waste in accordance with regulations.
Not completely emptied packaging can contain remnants of dangerous substances and should therefore be handled as hazardous waste according to the above. Completely emptied packaging can be recycled.
Also take local regulations for dealing with waste into account.
See also national waste regulations.

Classification according to 2008/98

Recommended LoW-code: 14 06 03 Other solvents and solvent mixtures

SECTION 14: Transport information

Where not otherwise stated the information applies to all of the UN Model Regulations, i.e. ADR (road), RID (railway), ADN (inland waterways), IMDG (sea), and ICAO (IATA) (air).

14.1. UN number

1090

14.2. UN proper shipping name

-

14.3. Transport hazard class(es)
Class

3: Flammable liquids

Classification code (ADR/RID)

F1: Flammable liquids having a flash-point of or below 60 °C

Subsidiary risk (IMDG)

No subsidary risk according to IMDG

Labels

14.4. Packing group

Packing group II

14.5. Environmental hazards

Not applicable

14.6. Special precautions for user
Tunnel restrictions

Tunnel category: D/E

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

Not applicable

14.8 Other transport information

Transport category: 2; Highest total quantity per transported unit 333 kg or liters
Stowage category E (IMDG)
Emergency Schedule (EmS) for FIRE (IMDG) F-E
Emergency Schedule (EmS) for SPILLAGE (IMDG) S-D

SECTION 15: Regulatory information

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

Water hazard class: (Self classification) WGK 1: slightly hazardous for water.

15.2. Chemical safety assessment

Assessment and chemical safety report in accordance with 1907/2006 Annex I has not yet been performed.

SECTION 16: Other information

16a. Indication of where changes have been made to the previous version of the safety data sheet
Revisions of this document

Earlier versions

2017-10-30 Changes in section(s) 4, 5, 6, 7, 8, 11, 12, 13.

16b. Legend to abbreviations and acronyms used in the safety data sheet
Full texts for Hazard Class and Category Code mentioned in section 3

Flam Liq 2	Flammable liquids (Category 2)
Eye Irrit 2	Irritates eyes (Category 2)
STOT SE 3*drow*	Specific target organ toxicity - Single exposure (Category 3, Narcosis effect)

Explanations of the abbreviations in Section 14

ADR	European Agreement concerning the International Transport of Dangerous Goods by Road
RID	Regulations concerning the International Transport of Dangerous Goods by Rail
IMDG	International Maritime Dangerous Goods Code
ICAO	International Civil Aviation Organization (ICAO, 999 University Street, Montreal, Quebec H3C 5H7, Canada)
IATA	The International Air Transport Association

Tunnel restriction code: D/E; Transport by bulk or via tank: Passage forbidden through tunnels of category D and E, Other transportation means: Passage forbidden through tunnels of category E

Transport category: 2; Highest total quantity per transported unit 333 kg or liters

16c. Key literature references and sources for data
Sources for data

Primary data for the calculation of the hazards has preferentially been taken from the official European classification list, 1272/2008 Annex I , as updated to 2019-10-02.

Where such data was not available, alternative documentation used to establish the official classification was used, e.g. IUCLID (International Uniform Chemical Information Database). As a second alternative, information was used from reputable international chemical industries, and as a third alternative other available information was used, e.g. material safety data sheets from other suppliers or information from non-profit associations, where reliability of the source was assessed by expert opinion. If, in spite of this, reliable information could not be sourced, the hazards were assessed by expert opinions based on the known hazards of similar substances, and according to the principles in 1907/2006 and 1272/2008.

Full texts for Regulations mentioned in this Safety Data Sheet

1907/2006	REGULATION (EC) No 1907/2006 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC
2015/830	COMMISSION REGULATION (EU) 2015/830 of 28 May 2015 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)
1272/2008	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, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006
EH40/2005	EH40/2005 Workplace exposure limits
89/391	COUNCIL DIRECTIVE (89/391/EEC of 12 June 1989 on the introduction of measures to encourage improvements in the safety and health of workers at work
98/24	COUNCIL DIRECTIVE 98/24/EC of 7 April 1998 on the protection of the health and safety of workers from the risks related to chemical agents at work (fourteenth individual Directive within the meaning of Article 16(1) of Directive 89/391/EEC)
2008/98	DIRECTIVE 2008/98/EC OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 19 November 2008 on waste and repealing certain Directives
1907/2006	REGULATION (EC) No 1907/2006 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC

16d. Methods of evaluating information referred to in 1272/2008 Article 9 which was used for the purpose of classification

Hazard calculation for this mixture has been performed as a cumulative assessment with the aid of expert assessments in accordance with 1272/2008 Annex I , where all available information which may be significant to establishing the hazards of the mixture was assessed together, and in accordance with 1907/2006 Annex XI .

16e. List of relevant hazard statements and/or precautionary statements
Full texts for hazard statements mentioned in section 3

H225	Highly flammable liquid and vapour
EUH066	Repeated exposure may cause skin dryness or cracking
H319	Causes serious eye irritation
H336	May cause drowsiness or dizziness

16f. Advice on any training appropriate for workers to ensure protection of human health and the environment
Warning for misuse

This product can cause injuries if not used properly. The manufacturer, the distributor or the supplier are not responsible for adverse effects if the product is not handled in accordance with its intended use.

Other relevant information

Not indicated

Editorial information

This material safety data sheet has been prepared and checked by KemRisk®, KemRisk Sweden AB, Platensgatan 8, SE-582 20 Linköping, Sweden, www.kemrisk.se