

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 06.06.2019

Version number 202

Revision: 24.01.2018

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

- 1.1 Product identifier

- Trade name Aceton

- Article number: LOS1800

- CAS Number:

67-64-1

- EC number:

200-662-2

- Index number:

606-001-00-8

- REACH-Registration number 01-2119471330-49

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

For details on the identifiable uses according to EC-regulation No. 1907/2006 see annex of this safety data sheet.

- 1.3 Details of the supplier of the safety data sheet

- Manufacturer/Supplier:

EURO-LOCK Vertriebs-GmbH

Nordweststr. 3

D-59387 Ascheberg

Phone: + 49(0)2593 95887-0

Fax: + 49(0)2593 95887-29

- Informing department:

Tel.: + 49(0)2593 95887-0

E-mail: info@euro-lock.de

- 1.4 Emergency telephone number:

+ 49(0)2593 95887-0

Monday - Thursday 8:00 - 17:00 CET, Friday 8:00 - 13:00 CET

SECTION 2: Hazards identification

- 2.1 Classification of the substance or mixture

- Classification according to Regulation (EC) No 1272/2008

Flam. Liq. 2 H225 Highly flammable liquid and vapour.

Eye Irrit. 2 H319 Causes serious eye irritation.

STOT SE 3 H336 May cause drowsiness or dizziness.

- 2.2 Label elements

- Labelling according to Regulation (EC) No 1272/2008

The substance is classified and labelled according to the CLP regulation.

- Hazard pictograms



GHS02 GHS07

- Signal word Danger

- Hazard statements

H225 Highly flammable liquid and vapour.

H319 Causes serious eye irritation.

H336 May cause drowsiness or dizziness.

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- Precautionary statements

- P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
- P243 Take action to prevent static discharges.
- P280 Wear protective gloves/protective clothing/eye protection/face protection.
- P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].
- P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P403+P235 Store in a well-ventilated place. Keep cool.

- Additional information:

EUH066 Repeated exposure may cause skin dryness or cracking.

- 2.3 Other hazards**- Results of PBT and vPvB assessment**

- **PBT:** Not applicable.
- **vPvB:** Not applicable.

SECTION 3: Composition/information on ingredients**- 3.1 Substances****- CAS No. Designation:**

67-64-1 acetone

- Identification no(s):

- **EC number:** 200-662-2

- **Index number:** 606-001-00-8

SECTION 4: First aid measures**- 4.1 Description of first aid measures**

- **General advice:** Instantly remove any clothing soiled by the product.

- After inhalation

Supply fresh air and call for doctor for safety reasons.

In case of unconsciousness bring patient into stable side position for transport.

- After skin contact

Instantly wash with water and soap and rinse thoroughly. If skin irritation persists, seek medical advice.

- After eye contact

Rinse immediately opened eye for several minutes under running water. Then consult doctor.

- After swallowing

Rinse out mouth and then drink plenty of water.

Do not induce vomiting; instantly call for medical help.

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

Headache

Dazed

Dizziness

Sickness

Unconsciousness

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

No further relevant information available.

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SECTION 5: Firefighting measures

- **5.1 Extinguishing media**
- **Suitable extinguishing agents**
CO₂, extinguishing powder or water jet. Fight larger fires with water jet or alcohol-resistant foam.
- **5.2 Special hazards arising from the substance or mixture** Can form explosive gas-air mixtures.
- **5.3 Advice for firefighters**
- **Protective equipment:** Adjust protective clothing to surrounding fire.
- **Additional information**
Cool endangered containers with water spray jet.
Collect contaminated fire fighting water separately. It must not enter drains.
Temperature class: T 1 (DIN 57165)
Explosion group: II A (DIN 57165)
Fire class: B

SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures**
Wear protective equipment and keep unprotected persons away.
Extinguish naked flames. Remove flammable sources. No smoking. Avoid sparks. Avoid contact with skin, eyes and clothing. Avoid inhalation of fumes. Air contaminated rooms thoroughly. Protect against electrostatic sparks.
- **6.2 Environmental precautions:**
Prevent material from reaching sewage system, holes and cellars.
If large amounts are released, the authorities must be informed.
Damp down gases/fumes/haze with water spray jet.
- **6.3 Methods and material for containment and cleaning up:**
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Ensure adequate ventilation.
Dispose of the material collected according to regulations.
- **6.4 Reference to other sections**
See Section 7 for information on safe handling
See Section 8 for information on personal protection equipment.
See Section 13 for information on disposal.

SECTION 7: Handling and storage

- **7.1 Precautions for safe handling**
Ensure good ventilation/exhaustion at the workplace.
Ensure good interior ventilation, especially at floor level. (Fumes are heavier than air).
Restrict the quantity stored in the work place.
Avoid repeated or long term skin contact.
Prevent formation of aerosols.
- **Information about protection against explosions and fires:**
Fumes can combine with air to form an explosive mixture.
Flammable mixtures may be formed in empty containers.
Keep ignition sources away - Do not smoke.
Protect against electrostatic charges.
Use explosion-proof apparatus / fittings and spark-proof tools.

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- **7.2 Conditions for safe storage, including any incompatibilities**
- **Storage**
- **Requirements to be met by storerooms and containers:**
 Observe official regulations on storage and handling of water hazardous substances
 Store in cool location.
 Suitable material for containers and pipes: Aluminium.
 Suitable material for containers and conduit: steel or stainless steel.
- **Further information about storage conditions:**
 Store in cool, dry conditions in well sealed containers.
 Protect from heat and direct sunlight.
 Store container in a well ventilated position.
- **Storage class 3** (VCI - Konzept, 2007)
- **7.3 Specific end use(s)** Commercial use.

SECTION 8: Exposure controls/personal protection

- **Additional information about design of technical systems:**
 Room ventilation i.e. vacuum suction. Measures to be taken against electro-static sparks.

- 8.1 Control parameters

- **Components with critical values that require monitoring at the workplace:**

67-64-1 acetone (50-100%)

WEL	Short-term value: 3620 mg/m ³ , 1500 ppm Long-term value: 1210 mg/m ³ , 500 ppm
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- DNELs

Oral	DNEL (population)	62 mg/kg bw/day (Long-term - systemic effects)
Dermal	DNEL (population)	62 mg/kg bw/day (Long-term - systemic effects)
	DNEL (worker)	186 mg/kg bw/day (Long-term - systemic effects)
Inhalative	DNEL (population)	200 mg/m ³ (Long-term - systemic effects)
	DNEL (worker)	2420 mg/m ³ (Acute - local effects)
		1210 mg/m ³ (Long-term - systemic effects)

- PNECs

PNEC	21 mg/l (intermittent releases)
PNEC aqua	10.6 mg/l (fresh water)
	1.06 mg/l (marine water)
PNEC sediment	30.4 mg/kg dw (fresh water)
	3.04 mg/kg dw (marine water)
PNEC soil	29.5 mg/kg dw (soil)

- **Additional information:** The lists that were valid during the compilation were used as basis.

- 8.2 Exposure controls

- Personal protective equipment

- General protective and hygienic measures

- Wash hands during breaks and at the end of the work.
- Avoid contact with the eyes and skin.
- Keep away from food, beverages and fodder.
- Instantly remove any soiled and impregnated garments.
- Do not inhale gases / fumes / aerosols.
- Use skin protection cream for preventive skin protection.

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- Breathing equipment:

Breathing protection recommended.

If engineering controls do not maintain airborne concentrations to a level which is adequate to protect worker health, select respiratory protective equipment suitable for the specific conditions of use and meeting relevant legislation. Check with respiratory protective equipment suppliers.

Where air-filtering respirators are suitable, select an appropriate combination of mask and filter, select a filter suitable for organic gases and vapours (Boiling point >65°C.). Where respiratory protective equipment is required, use a full face mask.

Where air-filtering respirators are unsuitable (e.g. airborne concentrations are high, risk of oxygen deficiency, confined space use appropriate positive pressure breathing apparatus.

- Recommended filter device for short term use: Filter AX

- Protection of hands:

Solvent resistant gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

Check the permeability prior to each renewed use of the glove.

To avoid skin problems reduce the wearing of gloves to the required minimum.

- Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

Butylrubber, BR, recommended thickness of the material: ≥ 0.5 mm, penetration time: ≥ 240 min.

- Penetration time of glove material

Material of gloves is recommended for a short-term single use to protect from splashes. For permanent usage contact manufacturer of gloves.

Change gloves if notice sign of disenchantment.

- For the permanent contact gloves made of the following materials are suitable: Butyl rubber, BR

- Not suitable are gloves made of the following materials:

Strong gloves

Leather gloves

Natural rubber, NR

Chloroprene rubber, CR

Nitrile rubber, NBR

Fluorocarbon rubber (Viton)

PVC gloves

- Eye protection: Tightly sealed safety glasses.

- Body protection: Standard protective working clothes

SECTION 9: Physical and chemical properties

- 9.1 Information on basic physical and chemical properties

- General Information

- Appearance:

Form: Fluid
Colour: Colourless

- Smell: Aromatic

- Odour threshold: Not determined.

- pH-value: Not determined.

- Change in condition

Melting point/freezing point: -94,7 °C

Initial boiling point and boiling range: 55,8-56,6 °C (ASTM D97)

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- Flash point:	-18 °C (IP 170 Abel)
- Ignition temperature:	540 °C (ASTM 2155)
- Decomposition temperature:	Not determined
- Self-inflammability:	Not determined
- Explosive properties:	Product is not explosive. However, formation of explosive air/steam mixtures is possible.
- Critical values for explosion:	
Lower:	2,5 Vol %
Upper:	13,0 Vol %
- Vapour pressure at 20 °C:	247 hPa
- Density at 20 °C	0,790-0,792 g/cm ³ (ASTM D 4052)
- Relative density	Not determined
- Vapour density	Not determined.
- Evaporation rate	Not determined
- Solubility in / Miscibility with Water:	Fully miscible
- Partition coefficient: n-octanol/water:	-0,24 log POW
- Viscosity:	
dynamic at 20 °C:	0,33 mPas (ASTM D 445)
kinematic:	Not determined
- 9.2 Other information	No further relevant information available.

SECTION 10: Stability and reactivity

- **10.1 Reactivity** see section 10.3
- **10.2 Chemical stability**
- **Thermal decomposition / conditions to be avoided:**
No decomposition if used according to specifications.
Can be distilled without decomposing at normal pressure
To avoid: warmth, flames, sparks
- **10.3 Possibility of hazardous reactions**
Possible formation of peroxide
Used empty containers may contain product gases which form explosive mixtures with air
Danger of containers bursting because of high vapour pressure
Forms explosive gas mixture with air
Reacts with strong oxidizing agents
- **10.4 Conditions to avoid** No further relevant information available.
- **10.5 Incompatible materials:**
strong oxidizing agents
Strong bases
- **10.6 Hazardous decomposition products:**
Formation of carbon monoxide and carbon dioxide in case of fire.

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SECTION 11: Toxicological information

- 11.1 Information on toxicological effects

- **Acute toxicity** Based on available data, the classification criteria are not met.

- LD/LC50 values that are relevant for classification:

Oral	LD50	5800 mg/kg (rat)
Dermal	LD50	> 15800 mg/kg (rbt)
Inhalative	LC 50 / 4 h	76 mg/l (rat)

- Primary irritant effect:

- **Skin corrosion/irritation** Based on available data, the classification criteria are not met.

- Serious eye damage/irritation

Causes serious eye irritation.

- **Respiratory or skin sensitisation** Based on available data, the classification criteria are not met.

- Subacute to chronic toxicity:

- **Germ cell mutagenicity:** Ames-Test: negativ

- **Carcinogenicity:** No data available.

- **Reproductive toxicity:** No data available.

- **STOT-single exposure:** No data available.

- STOT-repeated exposure:

Oral	NOAEL	900 mg/kg (rat) (KG/day 90 days)
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- Additional toxicological information:

Vapours in higher concentration have an irritating effect on the upper respiratory tract. Very high concentrations may cause dizziness, headaches and unconsciousness.

- CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)

- **Germ cell mutagenicity** Based on available data, the classification criteria are not met.

- **Carcinogenicity** Based on available data, the classification criteria are not met.

- **Reproductive toxicity** Based on available data, the classification criteria are not met.

- STOT-single exposure

May cause drowsiness or dizziness.

- **STOT-repeated exposure** Based on available data, the classification criteria are not met.

- **Aspiration hazard** Based on available data, the classification criteria are not met.

SECTION 12: Ecological information

- 12.1 Toxicity

- Aquatic toxicity:

EC 50 / 48 h	> 100 mg/l (Daphnia magna)
EC 50 / 96 h	8300 mg/l (Lepomis macrochirus)
	7500 mg/l (Selenastrum capricornutum)
LC 50 / 96 h	7500 mg/l (Leuciscus idus)
	6500 mg/l (Oncorhynchus mykiss)

- **12.2 Persistence and degradability** The product is readily biodegradable.

- 12.3 Bioaccumulative potential

Dissolves in water. Lost within a day by evaporation and dissolution.

Large volumes may penetrate soil and could contaminate groundwater.

- **12.4 Mobility in soil** No further relevant information available.

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- **Ecotoxicological effects:**
- **Behaviour in sewage processing plants:**
Theoretical oxygen demand (calculated): 2,21 g O₂/g
Closed bottle test: BOD₅ bei 20 °C (sewage plant): 1,86 gO₂/g 84 % ThOD
- **Additional ecological information:**
- **General notes:**
Do not allow to enter drainage system, surface or ground water
Water hazard class 1 (Assessment by list): slightly hazardous for water.
- **12.5 Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **12.6 Other adverse effects** No further relevant information available.

SECTION 13: Disposal considerations

- **13.1 Waste treatment methods**
The following advice is related to new material and not to any processed products. In case of a mixture with other products other disposal methods may become necessary. If in doubt seek advice from product supplier or from local authorities.
- **Recommendation**
Must not be disposed of together with household garbage. Do not allow product to reach sewage system. If possible, send to be recycled, otherwise burn or deposit in a certified facility.
- **Waste disposal key number:**
Since 01/01/99 the waste code numbers have not only been product-related but are also essentially application-related. The valid waste code number of the application can be obtained from the European waste catalogue.
- **Uncleaned packagings:**
- **Recommendation:**
Other containers: After complete emptying and cleaning, send to be reconditioned or recycled.
Caution: Leftovers in the containers may cause the risk of explosion.
Uncleaned containers should not be perforated, cut or welded.
- **Recommended cleaning agent:** Water, if necessary with cleaning agent.

SECTION 14: Transport information

<ul style="list-style-type: none"> - 14.1 UN-Number - ADR, IMDG, IATA 	<p align="center">UN1090</p>
<ul style="list-style-type: none"> - 14.2 UN proper shipping name - ADR - IMDG, IATA 	<p align="center">1090 ACETONE ACETONE</p>
<ul style="list-style-type: none"> - 14.3 Transport hazard class(es) - ADR - Class - Label 	<p align="center">3 (F1) Flammable liquids. 3</p>
<ul style="list-style-type: none"> - IMDG, IATA - Class - Label 	<p align="center">3 Flammable liquids. 3</p>

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- 14.4 Packing group	
- ADR, IMDG, IATA	II
- 14.5 Environmental hazards:	
- Marine pollutant:	no
- 14.6 Special precautions for user	Warning: Flammable liquids.
- Kemler Number:	33
- EMS Number:	F-E,S-D
- 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code	Not applicable.
- Transport/Additional information:	
- ADR	
- Limited quantities (LQ)	1L
- Transport category	2
- Tunnel restriction code	D/E
- UN "Model Regulation":	UN1090, ACETONE, 3, II

SECTION 15: Regulatory information

- 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
- Labelling according to Regulation (EC) No 1272/2008
The substance is classified and labelled according to the CLP regulation.

- Hazard pictograms



GHS02 GHS07

- Signal word Danger

- Hazard statements

H225 Highly flammable liquid and vapour.

H319 Causes serious eye irritation.

H336 May cause drowsiness or dizziness.

- Precautionary statements

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P243 Take action to prevent static discharges.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

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

- Directive 2012/18/EU

- Qualifying quantity (tonnes) for the application of lower-tier requirements 5.000 t

- Qualifying quantity (tonnes) for the application of upper-tier requirements 50.000 t

- REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 3, 40

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- National regulations**- Information about limitation of use:***Employment restrictions concerning young persons must be observed.***- 15.2 Chemical safety assessment:** *A Chemical Safety Assessment has been carried out.*

SECTION 16: Other information

These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- Department issuing data specification sheet: *see item 1: Informing department***- Abbreviations and acronyms:**

NOAEL: No Observed Adverse Effect Level

RPE: Respiratory Protective Equipment

RCR: Risk Characterisation Ratio (RCR= PEC/PNEC)

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

CLP: Classification, Labelling and Packaging (Regulation (EC) No. 1272/2008)

EINECS: European Inventory of Existing Commercial Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

TRGS: Technische Regeln für Gefahrstoffe (Technical Rules for Dangerous Substances, BAuA, Germany)

DNEL: Derived No-Effect Level (REACH)

PNEC: Predicted No-Effect Concentration (REACH)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

vPvB: very Persistent and very Bioaccumulative

Flam. Liq. 2: Flammable liquids – Category 2

Eye Irrit. 2: Serious eye damage/eye irritation – Category 2

STOT SE 3: Specific target organ toxicity (single exposure) – Category 3

- * Data compared to the previous version altered.