

Material Safety Data Sheet
According to 1907/2006/EG, Article 31

Printing date 01-09-2015/ Version 1.1
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Aceton

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

1.1 Product identifier

Trade name : Aceton
REACH registration number : 01-2119471330-49
Articlenumber : P50044
CASno. : 67-64-1
(EC) EINECSno. : 200-662-2
Catalognumber : 606-001-00-8

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

Solvents

1.3 Details of the supplier of the safety data sheet.

Manufacturer/ Supplier: Denteck B.V.
 Heliumstraat 8
 2718 SL Zoetermeer
 T. +31-(0)79-3617573
 @ info@denteck.nl
 W www.denteck.nl

Further information obtainable from: Denteck B.V.

1.4 Emergency Telephone number:

The Netherlands: NVIC: 0031- (0)30-2748888 (Only to inform doctors in case of accidental poisoning).

Belgium: Belgium Poison Control Centre: Tel: 0032 (0)70-245 245

SECTION 2. Hazards identification

2.1 Classification of the substance or mixture

Classification of the substance or mixture (EG) no. 1272/2008



GHS02 Flammable

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



GHS07

Eye irrit. 2 H319 Causes serious eye irritation.
STOT single. 3 H336 May cause drowsiness or dizziness.

Special hazards for human and environment:

At long or repeated contact with skin dermatitis (skin inflammation) due to the degreasing effect of the solvent.

Has a narcotizing effect.

2.2 Label elements

Labelling according to Regulation (EG) no. 1272/2008

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

Hazards pictograms



GHS02



GHS07

Signalword:

Danger

Hazard statements:

H225 Highly flammable liquid and vapour.

H319+EUH066 Causes serious eye irritation. Repeated exposure may cause skin dryness or cracking.

H336 May cause drowsiness or dizziness.

Precautionary statements:

P210 Keep away from heat, hot surfaces, open flames, sparks – No smoking.

P261 Avoid breathing mist, spray, vapours.

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

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

P305+P351+338 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 according the local/ regional/ national/ international regulations.

2.3 Other hazards

Results of PBT- and zPzB-review

PBT: Not usable.

zPzB: Not usable.

SECTION 3. Composition/ information on ingredients

3.1 Substances

Chemical characterization: Fabrics CH₃COCH₃

CAS-no. description

67-64-1 Acetone

Identification number (s)

EINECS-number: 200-662-2

Catalognumber: 606-001-00-8

SECTION 4. First aid measures

4.1 Description of first and measures

Description of first aid measures

General measures

If threatening unconsciousness, position and transport in recovery position. If symptoms persist, seek medical treatment.

After inhalation: Supply fresh air and consult a doctor.

After skincontact: Wash immediately with plenty of water and soap and rinse thoroughly.

After eyecontact: Rinse immediately with plenty of water. Seek medical advice.

After swallowing: Ingest activated charcoal. Rinse mouth and drink water.

Information for doctor:

4.2 Main acute and delayed symptoms and effects:

Vomit

Headache

Drowsiness

SECTION 5. Firefighting measures

5.1 Extinguishing media

Extinguishing media

Suitable extinguishing media

Alcohol resistant foam

Water spray

Dry powder

Carbon dioxide

Unsuitable extinguishing media: Not known

5.2 Special hazards arising from the substance or mixture

Fire gas of organic material are invariably as respiratory poison.

Carbon monoxide (CO)

Carbon dioxide (CO₂)

5.3 Advice for firefighters

Protective equipment.

Fire-fighting, rescue and clearing work under effect of fire or gas may only be carried out with heavy breathing apparatus. Protective clothing.

Further information:

The endangered tanks/ containers cool with water spray. Developer (explosive) gases precipitation with water spray.

SECTION 6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures.

Protective clothing for the workers. Keep unprotected persons away.

6.2 Environmental precautions

Avoid reaching sewage system, holes and cellars. Avoid penetration into sewage/ groundwater.

6.3 Measures for cleaning and collecting.

Remains flush with water. With absorbent (non-flammable) material (sand, sawdust, suitable absorbent). Ensure adequate ventilation.

6.4 Reference to other sections:

Information on safe use – see Chapter 7

Information on personal protection equipment – see Chapter 8.

Information regarding disposal – see Chapter 13

SECTION 7. Handling and storage

Handling:

7.1 Precautions for safe handling:

Avoid aerosol formation.

Information about explosions and fires:

Take precautions against electrostatic charges. Keep ignition sources away – do not smoke.

Protect against electrostatic charges. No open flames, no smoking. Closed equipment, ventilation, explosion-proof electrical equipment.

7.2 Conditions for safe storage, including any incompatibilities

Storage:

Requirements for storage rooms and containers:

Store in a dry, cool, well-ventilated area. Store in a cool place.

Information about storage: Store away from oxidizing agents.

Further information about storage requirements:

Keep packaging tightly closed. Cool and dry in tightly closed containers.

7.3 Specific end uses: No further relevant information available.

SECTION 8. Exposure controls/ personal protection

8.1 Control parameters

67-64-1 Aceton

MAK	Short-term value: 2420 mg/m ³ Long-term value: 1210 mg/m ³ , 500 ppm
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8.2 Measures to control exposure

Personal protective equipment:

General safety and hygienic measures:

Preventive skin protection with skin protection ointment. Contaminated clothing. Vapours/ aerosol not breathe. Avoid contact with eyes and skin. Before breaks and at the end of work wash hands.

Respiratory protection:

Suitable respiratory protection.

Short term filter device:

Filter AX

If necessary, use self-contained breathing apparatus.

Hand protection:

Selection of the glove material on consideration of the breakthrough time, permeation rate and the degradation rate.

Material of gloves

Butyl rubber gloves.

The selection of the suitable gloves does not only depend on the material, but also on other quality and may differ from manufacturer to manufacturer.

Breakthrough time of the glove material.

With long and direct contact (recommended: Protection index 6, corresponding > 480 minutes permeation time / Permeation according to EN 374).

Butyl

- Breakthrough time: > 480 min
- Material thickness: 0,6 – 0,8 mm

Eye protection: Safety glasses (goggles) (EN166).

Body protection: Light antistatic protective clothing.

SECTION 9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

General data

Physical state	: Clear Liquid
Colour	: Colourless
Odour	: Aromatic
pH-value (- g/l) at 20°C	: 5-9
Change	
Melting point	: -95°C
Boiling point	: 56°C
Flash point	: < -18°C
Ignition Temperature	: 540°C
Explosion risk	: The product is not explosive, but the formation of explosive air/ vapour mixtures are possible.
Explosion limits	
Bottom	: 2,2 Vol%
Upper	: 12,8%
Vapour pressure at 20°C	: 240 hPa
Density at 20°C	: 0,79 g/cm ³
Relative density at 20°C	: 2,01 g/cm ³
Solubility in/ miscibility with:	
Water	: Completely miscible
Coefficient (n-octanol/water)	: -0,24 log POW
Viscosity	
Dynamic at 25°C	: 0,316 mPas
Kinematic	: No data available

SECTION 10. Stability and reactivity**10.1 Reactivity****10.2 Chemical stability****Thermal decomposition/ conditions to avoid:**

Development of highly flammable gases/ vapours. Development of peroxides. No decomposition if used according to specifications.

10.3 Dangerous reactions

Reactions with oxidizing agents

Reactions with oxidizing agents

10.4 Incompatible materials: Oxidizing agents**10.5 Hazardous decomposition products:** Carbon monoxide and carbon dioxide.**SECTION 11. Toxicological information****11.1 Information on toxicological effects****Acute toxicity****LD/LC50 values**

Oral	LD50	5800 mg/kg (rat)
Dermal	LD50	>7400 mg/kg (rat)
Inhalative	LC50/4h	32000 mg/m ³ (rat)

Primary irritant effect:**On the skin:**

Moderately irritating.

Repeated or prolonged contact may dry and defat the skin and cause an eczema-like skin condition caused by damage.

On the eye: Irritating.**Additional toxicological information:**

Inhalation of aerosols can cause:

Headache

Dizziness

Insomnia

SECTION 12. Ecological Information**12.1 Toxicity****Aquatic toxicity**

EC50 / 24h	10000 mg/l (daphnia magna)
EC50 / 30 min	59 – 67,4 mg/l (bacteria)
LC50 / 48 h	11300 mg/l (leuciscus idus)
NOEC	3400 mg/l (chlorella pyrenoidosa) (48h)

12.2 Persistence and degradability: No further relevant information available.**Further information:**

The product is easily biodegradable. BOD in % of th. OD: 84% in 5 days.

Behavior in environmental systems:**12.3 Bioaccumulation:** No further relevant information available.**12.4 Mobility in soil:** No further relevant information available.**12.5 Additional ecological information:****General information:**

Water hazard class (NL) 11: Little harmful to aquatic organisms.

Water hazard class 1 (D) (list classification): hazardous for water.

Do not allow undiluted product or large quantities to penetrate ground water, surface water or sewage system.

12.6 Results of PBT and vPvB assessment

PBT: Not applicable.

vPvB: Not applicable.

12.7 Other adverse effects: No further relevant information available.

SECTION 13. Disposal

13.1 Waste treatment methods

Recommendation: Disposal according to official regulations.

Contaminated packaging:

Recommendation:

Contaminated packaging should be emptied: they can be recycled after thoroughly and proper cleaning. Packaging that can not be cleaned should be disposed like the substance itself.

Disposal according to official regulations.

Recommended cleaning agent: Water.

SECTION 14 Transport information

14.1 Transport by land ADR/RID and GGVS/GGVE:



ADR/GGVSEB Class	: 3 Flammable liquids
Kemler-number	: 33
UN-number	: 1090
Packing Group	: II
Proper Shipping Name model UN	: 1090 Acetone
Tunnel restriction code	: D/E

Transport at Sea IMDG/GGVSee:



IMDG/GGVSee-Class	: 3
UN-number	: 1090
Label	: 3
Packing Group	: II
EMS-number	: F-E, S-D
Marine pollutant	: Not classified as a marine pollutant
Proper Shipping Name	: ACETONE

Transport by Air ICAO-TI and IATA-DGR:



ICAO/IATA-Class : 3
 UN/ID-number : 1090
 Label : 3
 Verpakkingsgroep : II
 Proper Shipping Name : ACETONE

 UN "Model Regulation" : UN1090, ACETON, 3, II

Special precautions for use: Warning: Flammable liquids.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code: Not applicable.

SECTION 15. Regulatory information

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

National regulations:

Information about limitation of use: Employment restrictions concerning young people.

Technical instructions

Class	Share in %
NK	100,0

Water hazard class:

Water hazard class (NL) 11: Sanitizing effort B

Class 1 (D) (list classification): slightly hazardous for water.

15.2 Chemical safety assessment:

A chemical safety assessment has not been carried out.

SECTION 16. Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Statement of changes

1.4	Changed
SECTION	Added
Blz. 1 t/m 9	Added

Abbreviations and acronyms:

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

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail).

IMDG: International Maritime Code for Dangerous Goods.

IATA: International Air Transport Association..

IATA-DGR: Dangerous Goods Regulations by the “ International Air Transport Association (IATA)

ICAO: International Civil Aviation Organization.

ICAO-TI: Technical Instruction by the “International Civil Aviation Organization” (ICAO)

GHS: Globally Harmonized System of Classification and Labelling of Chemicals.

EINECS: European Inventory of Existing Commercial Chemical Substances.

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

LD50: Lethal dose, 50 percent.