

Safety Data Sheet

according to Regulation (EC) No. 1907/2006



GENAXXON

b i o s c i e n c e

Product number : M6334

Product name :

Acetic acid 100%

1. Identification of the substance/preparation and of the company

Product details

Product Name: Acetic acid 100%

Catalogue-No.: M6334

Manufacturer /Supplier:

Genaxxon bioscience GmbH, Söflinger Str. 100, 89077 Ulm/Germany.
Tel.: +49 (0)731 3608 123

Further information available from:

Genaxxon bioscience GmbH, Söflinger Str. 100, 89077 Ulm/Germany.
Tel.: +49 (0)731 3608 123

Information in case of emergency:

Poison Information Centre Mainz, Germany
Tel.: +49 (0)6131 19240 / 24 h

MSDS-No: acetic_m6334/1e

NOTE: If this product is a kit or supplied with more than one material, please refer to the MSDS for each component for hazard information.

Product Use:

This products are for laboratory research use only and are not intended for human or animal diagnostics, therapeutics or other clinical uses.

2. Hazardous identification

Classification of the substance/preparation/mixture

Classification according to Regulation (EC) No 1272/2008

According to Regulation (EC) No1272/2008



GHS02 flame

Flam. Liq. 3 H226 Flammable liquid and vapour.



GHS05 corrosion

Skin Corr. 1A H314 Causes severe skin burns and eye damage.

Classification according to European Directive 67/548/EEC or Directive 1999/45/EC.



C; Corrosive

R35: Causes severe burns

R10: Flammable

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Label elements

Labelling according to Regulation (EC) No 1272/2008

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

Hazard pictograms



GHS02



GHS05

Signal word: Danger

Hazard-determining components of labeling:

acetic acid

Hazard statement(s)

H226 Flammable liquid and vapour.

H314 Causes severe skin burns and eye damage.

Precautionary statement(s):

P280: wear protective gloves/protective clothing/eye protection/face protection.

P303+P361+P353 IF ON SKIN (or hair): Remove with water for several minutes. Rinse skin with water/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.

P310 Immediately call a POISON CENTER or doctor/physician.

P301+P330+P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting.

P307 IF exposed:

Other hazards

Results of PBT and vPvB assessment

PBT: Not applicable

vPvB: Not applicable

3. Composition/Information on ingredients

Chemical Characterisation

Description: Liquid

Synonyme:

Formula: C₂H₄O₂

Molecular Weight: 60.05 g/mol

Product name	CAS-No.	EC-No.	Index-No.	Classification	Concentration
Sodium diatrizoate dihydrate	64-19-7	200-580-7	---		100%

4. First Aid Measures

Description of first aid measures

General information: Immediately remove any clothing soiled by the product.

After inhalation: Supply fresh air; consult a doctor/physician in case of complaints.

After skin contact:

Immediately remove any clothing soiled by the product.

Wash with polyethylene glycol 400 and then rinse with plenty amounts of water.

Call a doctor/physician immediately.

After eye contact: Rinse opened eye for several minutes under running water.

Call a doctor/physician immediately.

After swallowing:

Rinse out mouth.

make victim drink water (maximum of 2 drinking glasses).

Do not induce vomiting; call for medical help immediately.

Zuständig : GF

Druckdatum : 2011-07-28- überarbeitet : 2011-07-28

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5. Fire-fighting Measures

Extinguishing media

Suitable extinguishing agents: powder, water spray or CO₂. Fight larger fires with water spray or alcohol resistant foam.

Special hazards arising from the substance or mixture

Combustible.

Vapours are heavier than air and may spread along floors.

During heating or in case of fire poisonous gases are produced.

Advice for fire-fighters

Protective equipment: Wear self-contained respiratory protective device.

Additional information

Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

Cool endangered receptacles with water spray.

Contain escaping vapours with water.

6. Accidental release Measures

Personal precautions, protective equipment and emergency procedures

Wear protective equipment. Keep unprotected persons away.

Do not inhale steams/aerosols.

Ensure adequate ventilation.

Avoid substance contact.

Environmental precautions

Do not let product enter drains/sewers/surface or ground water.

Methods and materials for containment and cleaning up:

Absorb with liquid-binding material.

Use neutralization agent.

Ensure adequate ventilation.

Clean up affected area.

Dispose of the material collected according to regulations.

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 disposal information

7. Handling and storage

Handling

Precautions for safe handling: Ensure good ventilation/exhaustion at the workplace.

Information about fire – and explosion protection

Keep ignition sources away – Do not smoke.

Protect against electrostatic charges.

Conditions for safe storage

Storage:

Requirements to be met by storerooms and receptacles: No special requirements.

Information about storage in one common storage facility: Not required.

Further information about storage conditions:

Keep container tightly closed.

Open receptacle only under localized extractor facilities.

Store under lock and key and with access restricted to technical experts or their assistants only.

Recommended storage temperature: 15°C – 25°C.

Storage class: 3A

Special requirements: None

8. Exposure controls/personal protection

Additional information about design of technical facilities: No further data; see item 7.

Control parameters

Ingredients with limit values that require monitoring at the workplace: Not required.

Additional information: The list valid during the making were used as basis.

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Exposure controls

Personal protective equipment

General protective and hygienic measures:

Immediately remove all soiled and contaminated clothing.

Wash hands before breaks and at the end of work.

Do not inhale gases/fumes/aerosols.

Avoid contact with the eyes and skin.

Respiratory protection:

For nuisance exposure use type P95 (US) or type P1 (EU EN 143) particle respirator. For higher level protection use type OV/AG/P99 (US) or type ABEDk-P2 (EU EN 143) respirator cartridges. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Hand protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching gloves outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it. The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

Eye protection

Tightly sealed goggles. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin and body protection

Complete suit protection against chemicals. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

9. Physical and chemical properties

Appearance

Form:	Fluid
Colour:	Colourless
Odeur:	Pungent

Safety data

Change in conditions

Melting Point:	17°C
Boiling Point:	118°C
Sublimation:	not applicable

Flash Point:	39°C
Ignition temperature:	485°C

Danger of explosion: Product is not explosive. However, formation of explosive air/vapour mixtures are possible.

Lower Explosion limit	4 Vol%
Upper Explosion limit	17 Vol%

Vapour pressure at 20°C: 16 hPa

Density at 20°C: 1.05 g/cm³

Solubility in/ Miscibility with water at 25°C:	1000g/L
Organic solvents:	100%

pH Value (50g/L) at 20°C: 2.5

Viscosity:

Dynamic at 20°C:	1.22 mPas
Kinematic at 20°C:	1.17 mm ² /s

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10. Stability and Reactivity

Reactivity

Chemical stability:

Thermal decomposition: Stable under recommended conditions.

Conditions to avoided: Heating.

Incompatible materials: Strong oxidizing agents.

Hazardous decomposition products: In the event of fire: See Section 5.

Additional information:

Incompatible with:
metals.

Forms explosive mixtures with air on intense heating.

11. Toxicological information

Information on toxicological effects

Acute toxicity

LD/LC50 values relevant for classification:

64-19-7 acetic acid

Oral LD50 3310mg/kg (rat)

Dermal LD50 1060mg/kg (rabbit)

Primary irritant effect:

on the skin: Strong caustic effect on skin and mucous membranes.

on the eye: Strong caustic effect.

After inhalation: Strong caustic effect on skin and mucous membranes.

Sensitization: No sensitizing effects known.

Additional toxicological information:

Swallowing will lead to a strong caustic effect on mouth and throat and to the danger of perforation of esophagus and stomach.

The product should be treated with usual precautions while handling chemicals.

Signs and Symptoms of Exposure

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

12. Ecological Information

Toxicity

Aquatic toxicity: No further relevant information available.

Persistence and degradability: Product is easily biodegradable.

Additional ecological information

General notes:

Water hazard class 1 (German Regulation) (Assessment by list): slightly hazardous for water.

Mobility in soil: No data available

PBT and vPvB assessment

PBT: Not applicable

vPvB: Not applicable

General notes: If handled accordingly no ecological problems are expected.

13. Disposal considerations

Waste treatment methods:

Recommendation: Offer surplus and non-recyclable solutions to a licensed disposal company. Must not be disposed together with household garbage. Contact a licensed professional waste disposal service to dispose of this material. Observe all federal, state, and local environmental regulations.

Uncleaned/contaminated packaging: Dispose of as unused product.

Recommendation: Disposal must be made according to official regulations.

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14. Transport information

Land transport ADR/RID (cross border)



ADR/RID class: 8 (CF1) Corrosive substances.
Danger code (Kemler): 83
UN-Number: 2789
Packaging Group: II
Hazard label: 8+3
UN proper shipping name: 2789 ACETIC ACID, GLACIAL
Tunnel restriction code: D/E

Maritime transport IMDG:



IMDG class: 8
UN-Number: 2789
Label: 8+3
Packaging Group: II
EMS Number: F-E,S-C
Marine pollutant: No
Segregation groups: Acids
Proper shipping name: 2789 ACETIC ACID, GLACIAL

Air transport ICAO-TI and IATA-DGR:



IMDG class: 8
UN/ID Number: 2789
Label: 8+3
Packaging Group: II
Proper shipping name: 2789 ACETIC ACID, GLACIAL

UN "Model Regulation": UN2789, ACETIC ACID, GLACIAL, 8 (3), II

Special precautions for user Warning: Corrosive substances.

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15. Regulatory information

Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

This safety data sheet complies with the requirements of Regulation (EC) No. 1272/2008.

National Regulations: Germany

Water hazard class: Water hazard class 1 (Self-assessment).

16. Other information

Further information

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Genaxxon bioscience GmbH, shall not be held liable for any damage resulting from handling or from contact with the above product. See reverse side of invoice or packing slip for additional terms and conditions of sale.

Disclaimer

This product is for R&D use only. Not for drug, household or other uses.

Abbreviation and Akronymes:

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods 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 Instructions by the "International Civil Aviation Organization" (ICAO)

GHS: Globally Harmonized System of Classification and labeling of Chemicals

GefStoffV: Gefahrstoffverordnung (Ordinance on Hazardous Substances, Germany)