

Safety Data Sheet

according to Regulation (EC) No. 1907/2006



Product number : S5399

Product name : Sodium diatrizoate dihydrate

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

Product details

Product Name: Sodium diatrizoate dihydrate

Catalogue-No.: S5399

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:

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

MSDS-No: diatrizoate/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

According to Regulation (EC) No1272/2008
Respiratory sensitization (Category 1)
Skin sensitization (Category 1)

According to European Directive 67/548/EEC as amended.
May cause sensitization by inhalation and skin contact.

Label elements:



Signal word: Danger

Hazard statement(s)

H317 May cause an allergic skin reaction
H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Precautionary statement(s):

P261: Avoid breathing dust/fume/gas/mist/vapours/spray
P280: wear protective gloves.

Reaction(s):

P342 + P311: If experiencing respiratory symptoms: Call a Poison Center or doctor/physician.

Hazard symbol(s)



Xn - Harmful

R-phrases(s)

R42/43: May cause sensitization by inhalation and skin contact.

Zuständig : GF

Druckdatum : 2010-08-04– überarbeitet : 2010-08-04

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S-phrase(s)

S36: Wear suitable protective clothing.

Other hazards: None

3. Composition/Information on ingredients

Chemical Characterisation

Description: Powder

Synonyme: Diatrizoic acid sodium salt dihydrate

Formula: C₁₁H₈I₃N₂NaO₄·2H₂O

Molecular Weight: 689.93 g/mol

Product name	CAS-No.	EC-No.	Index-No.	Classification	Concentration
Sodium diatrizoate dihydrate	737-31-5	212-004-1	---	Resp. Sens. 1; Skin Sens. 1; H317, H334 Xn, R42/43	---

4. First Aid Measures

General advice

Consult a physician. Show this safety data sheet to the doctor in attendance.

If inhaled: If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact: Wash off with soap and plenty of water. Consult a physician.

In case of eye contact: Flush eyes with water as a precaution.

If swallowed: Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

5. Fire-fighting Measures

Suitable extinguishing media: use water spray, CO₂, alcohol-resistant foam, dry chemical or carbon dioxide.

Special risks: Specific Hazard(s): Emits toxic fumes under fire conditions: Carbon monoxide, Carbon dioxide, Nitrogen oxides, Hydrogen iodide (CO, CO₂, NO_x, HI).

Special protective equipment for fire-fighters: Wear self contained breathing apparatus for fire-fighting if necessary.

6. Accidental release Measures

Personal precaution procedures to be followed in case of leak or spill

Use personal protective equipment. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust. Avoid direct contact and wash spill site after material pick-up is complete.

Environmental precautions

Do not let product enter drains.

Methods and materials for containment and cleaning up:

Pick up and arrange disposal without crating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

Additional information: None

7. Handling and storage

Precautions for safe handling:

Avoid contact with eyes, skin and clothing. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed.

Information about fire – and explosion protection: Normal measures for preventive fire protection.

Conditions for safe storage:

Requirements to be met by storerooms and receptacles: Keep bottles well closed.

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Information about storage in one common storage facility: Keep bottles well closed in a dry and well ventilated place.

Further information about storage conditions: Keep tightly closed. Store at RT.

Special requirements: Light sensitive.

8. Exposure controls/personal protection

Personal protective equipment

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

Face shield and safety glasses. 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.

Hygiene measures

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

9. Physical and chemical properties

Appearance

Form: Powder - Solid
Colour: White
Odeur: None

Safety data

Change in conditions

Melting Point: no data available
Boiling Point: no data available
Sublimation: no data available

Flash Point: no data available
Ignition temperature: no data available

Lower Explosion limit no data available
Upper Explosion limit no data available

Density at 20°C: no data available

Solubility in water: 350g/L (20°C)

pH at 20°C: 6-7.5 (100g/L H₂O)

10. Stability and Reactivity

Chemical stability: Stable under recommended conditions

Conditions to avoid: Avoid strong heating.

Materials to avoid: Strong acids, Strong bases, Strong oxidizing agents, Nitric acid.

Dangerous decomposition products: Carbon monoxide, Carbon dioxide, Nitrogen oxids (NO_x), Hydrogen iodide (HI)

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Hazardous decomposition products: Hazardous decomposition products formed under fire conditions: Carbon monoxide, Carbon dioxide, Nitrogen oxides (NOx), Hydrogen iodide (HI)

11. Toxicological information

Acute Toxicity

LD50 (oral – Rat): 7g/kg

Remarks: Behavioural: convulsions or effect on seizure threshold. Cyanosis.

LD50 (intraperitoneal – rat): >5g/kg

Remarks: Behavioural: convulsions or effect on seizure threshold. Cyanosis.

Skin corrosion/irritation: No data available

Serious eye damage/eye irritation: No data available

Respiratory or skin sensitization: May cause allergic respiratory and skin reactions

Germ cell mutagenicity: No data available

Carcinogenicity: IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

Reproductive toxicity: No data available.

Specific target organ toxicity – single exposure: No data available

Reproductive toxicity: No data available.

Specific target organ toxicity – repeated exposure: No data available

Aspiration hazard: No data available

Potential health effects

Inhalation: May be harmful if inhaled. Material may be irritating to mucous membrane and upper respiratory tract.

Ingestion: May be harmful if swallowed

Skin: May be harmful if absorbed through the skin. May cause skin irritation.

Eyes: May cause eye irritation.

Signs and Symptoms of Exposure

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

Additional information:

RTECS: DG615000

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

12. Ecological Information

Toxicity: No data available

Persistence and degradability: No data available

Bioaccumulative potential: No data available

Mobility in soil: No data available

PBT and vPvB assessment: No data available

Other adverse effects: No data available

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

13. Disposal considerations

Product:

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,

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and local environmental regulations.

Uncleaned/contaminated packaging: Dispose of as unused product.

Recommendation: Disposal must be made according to official regulations.

14. Transport information

Land transport ADR/RID (cross border)

ADR/RID class: Not dangerous goods.

Maritime transport IMDG:

IMDG Class: Not dangerous goods.

Marine pollutant: No

Air transport ICAO-TI and IATA-DGR:

ICAO/IATA Class: Not dangerous goods.

15. Regulatory information

This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006.

Not hazardous according to Directive 67/548/EEC

National Regulations: Germany

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

16. Other information

Text of H-code(s) and R-phrases mentioned in Section 3

H317 May cause an allergic skin reaction
H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
Resp. Sens. Respiratory sensitization
Skin Sens. Skin sensitization
Xn Harmful
R42/43 May cause sensitization by inhalation and skin contact.

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)