

# Safety Data Sheet

according to Regulation (EC) No. 1907/2006



# GENAXXON

b i o s c i e n c e

Product number : M6071

Product name :

Sodium azide pure

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

### Product details

**Product Name:** Sodium azide pure

**Catalogue-No.:** M6071

### 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:** na\_azid/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 European Directive 67/548/EEC as amended.  
May cause sensitization by inhalation and skin contact.

### Label elements:



**Signal word:** Danger

### Hazard statement(s)

3.1/2: Fatal if swallowed. Contact with acids liberates very toxic gas.  
3.1/1: Fatal in contact with skin.



**Signal word:** Warning

### Hazard statement(s)

4.1/1: Very toxic to aquatic life.

### Reaction(s):

If swallowed: Immediately call a poison center or doctor/physician.  
Immediately call a poison center or doctor/physician.  
Remove/Take off immediately all contaminated clothing.  
Specific treatment (see on this label).

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## Hazard symbol(s)



**N – Dangerous for the environment**  
**T+ - Very toxic**

## R-phrases(s)

R28: Very toxic if swallowed.  
R32: Contact with acids liberates very toxic gas.  
R50/53: Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

## S-phrases(s)

S28: Do not empty into drains.  
S45: In case of accident or if you feel unwell seek medical advice immediately (show the label where possible)  
S60: This material and its container must be disposed of as hazardous waste.  
S61: Avoid release to the environment. Refer to special instructions/safety data sheet.

**Other hazards:** None

## 3. Composition/Information on ingredients

### Chemical Characterisation

**Description:** Powder  
**Synonyme:** Sodium azide pure  
**Formula:** N<sub>3</sub>Na  
**Molecular Weight:** 65.01 g/mol

Product name	CAS-No.	EC-No.	Index-No.	Classification	Concentration
Sodium azide pure	26628-22-8	247-852-1	011-004-00-7	3.1/2; 3.1/1; T+, N R28-32-50/53	---

## 4. First Aid Measures

### General advice

Immediately remove any clothing soiled by the product.  
In case of irregular breathing or respiratory arrest provide artificial respiration.

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

**In case of skin contact:** Immediately wash with water and soap and rinse thoroughly. Consult a physician.

**In case of eye contact:** Rinse opened eye for several minutes under running water. Then consult a physician.

**If swallowed:** Rinse mouth with water and then drink plenty of water. Consult a physician.

## 5. Fire-fighting Measures

**Suitable extinguishing media:** dry sand; cement; special powder for metal fires. Do not use water.

**For safety reasons unsuitable extinguishing agents:** Water

**Special risks:** Specific Hazard(s): Emits toxic fumes under fire conditions: nitrogen oxides (NO<sub>x</sub>).

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

**Additional information:** Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

## 6. Accidental release Measures

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

Use respiratory protective equipment against the effects of fumes/dust/aerosol. Avoid dust formation. Avoid breathing dust. Avoid substance contact. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid direct contact and wash spill site after material pick-up is complete.

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## Environmental precautions

Do not let product enter drains/sewers/surface or ground water. Inform respective authorities in case of seepage into water course or sewage system.

## Methods and materials for containment and cleaning up:

Pick up mechanically and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal. Dispose of the material collected according to regulations.

**Additional information:** None

## 7. Handling and storage

### Precautions for safe handling:

Avoid contact with eyes, skin and clothing. Avoid formation of dust.  
Provide appropriate exhaust ventilation at places where dust is formed.  
Any unavoidable deposit of dust must be regularly removed.

**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.

**Information about storage in one common storage facility:** Do not store together with acids. Store away from water. Keep bottles well closed in a dry and well ventilated place.

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

**Special requirements:** None.

## 8. Exposure controls/personal protection

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

### Ingredients with limit values that require monitoring at the workplace:

WEL: Short-term value: 0.3mg/m<sup>3</sup>  
Long-term value: 0.1mg/m<sup>3</sup>  
(as NaN<sub>3</sub>) Sk

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

### Personal protective equipment

#### Respiratory protection:

Where risk assessment shows air-purification respirators are appropriate use a dusk mask type N95 (US) or type P1 (EU EN 143) particle respirator. For higher level protection use type OV/AG/N99 (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

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.  
Keep away from foodstuffs, beverages and feed.  
Immediately remove all soiled and contaminated clothing.

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## 9. Physical and chemical properties

### Appearance

**Form:** Powder - Solid  
**Colour:** White  
**Odeur:** Odourless

### Safety data

#### Change in conditions

**Melting Point:** 275°C  
**Boiling Point:** undetermined  
**Sublimation:** undetermined

**Flash Point:** not applicable  
**Flammability (solid, gaseous):** Product is not flammable

**Danger of explosion:** Product does not present an explosion hazard

**Density at 20°C:** 1.846g/cm<sup>3</sup>

**Bulk density at 20°C:** no data available

**Solubility in water:** 420g/L (20°C)  
**Solubility in organic solvents:** not soluble

**pH in water at 25°C:** 10 (65g/L H<sub>2</sub>O)

**pH in organic solvent at 20°C:** product not soluble in organic solvents

## 10. Stability and Reactivity

**Chemical stability:** Stable under recommended conditions

**Conditions to avoid:** Avoid strong heating.

**Materials to avoid:** water, acids.

**Dangerous decomposition products:** No decomposition if used according to specifications.

## 11. Toxicological information

### Acute Toxicity

LD50 (oral – Rat): 27mg/kg

LD50 (dermal – Rat): 20mg/kg

LC50 (inhalation – rat): 37mg/m<sup>3</sup>

Remarks: Sense organs and special senses (nose, eye, ear, and taste): Eye: Other. Behavioural: Convulsions or effect on seizure threshold. Lungs, Thorax, or Respiration: Structural or functional change in trachea or bronchi.

LD50 (dermal – rabbit): 20mg/kg

### Primary irritant effects

**Skin:** Irritant to eyes and mucous membrane

**Eye:** Irritating effects

### Sensitization:

Sensitization possible through inhalation.

Sensitization possible through skin contact.

### Signs and Symptoms of Exposure

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

**Additional information:** None

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

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## 12. Ecological Information

**Toxicity:** Very toxic to fish

**Toxicity to fish:** LC50 – Lepomis macrochirus – 0.68mg/L – 96h

**Toxicity to daphnia and other aquatic invertebrates:** EC50 – Daphnia pulex (water flea) – 4.2mg/L – 48h

**Persistence and degradability:** not applicable for inorganic substances

**Bioaccumulative potential:** Not applicable

**Mobility in soil:** Not applicable

**PBT and vPvB assessment:** Not applicable

**Other adverse effects:** No data available

**General notes:** Water hazard class II (German Regulation) (Assessment by list): hazardous for water. Do not allow product to enter ground water, water course or sewage system. Danger to drinking water if even small quantities leak into the ground. Also poisonous for fish and plankton in water bodies. Very toxic for aquatic organisms.

## 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, 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:** 6.1 Toxic substances

**Danger code (Kemler):** -

**UN Number:** 1687

**Packaging Group:** II

**Hazard Label:** 6.1

**Special marking:** Symbol (fish and tree)

**Description of goods:** 1687 SODIUM AZIDE

### Maritime transport IMDG:



**IMDG Class:** 6.1

**UN Number:** 1687

**Label:** 6.1

**Packaging Group:** II

**EMS Number:** F-A, S-A

**Marine pollutant:** No

**Proper shipping name:** SODIUM AZIDE

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## Air transport ICAO-TI and IATA-DGR:



**ICAO/IATA Class:** 6.1  
**UN/ID Number:** 1687  
**Label:** 6.1  
**Packaging Group:** II  
**Proper shipping name:** SODIUM AZIDE

**UN "Model Regulation":** UN1687, SODIUM AZIDE, 6.1, II

## 15. Regulatory information

Labelling according to EU guidelines:

The product has been classified and marked in accordance with EU Directives / Ordinance on Hazardous Materials.

### Code letter and hazard designation of product:



**N – Dangerous for the environment**  
**T+ - Very toxic**

### R-phrases(s)

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**National Regulations:** Germany

**Water hazard class:** Water hazard class 2 ( 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

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ACAO-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)