

SAFETY DATA SHEET



Handelsname: Nitrobenzenesulfonic acid sodium granules

Print Date: 6. January 2021

Version: 2.2, revision date: 02.01.2021

Replaced version: 2.1 created on: 05.07.2019

Region: EN

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

1.1. Product identifier

Product name / Trade name

Nitrobenzenesulfonic acid sodium granules

Substance name

sodium 3-nitrobenzenesulphonate

REACH Registration Number

01-2119965131-44

Identification Number

CAS-No.

127-68-4

EC-No.

204-857-3

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

Recommended use

Chemical for various applications.

Uses advised against

No data available.

1.3. Details of the supplier of the safety data sheet

Company

SysKem Chemie GmbH
Brucknerweg 26
D-42289 Wuppertal

Telephone

+49 (0) 202/30999510

Telefax

+49 (0) 202/87088403

E-mail address

info@syskem.de

Prepared by / E-mail address of person responsible for the SDS

info@syskem.de

1.4. Emergency telephone number

Vergiftungs-Informationen-Zentrale Freiburg, Tel. +49 761 19240.

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Eye irritation, Category 2, H319

Skin sensitisation, Category 1, H317

For the full text of the H-Statements mentioned in this Section, see Section 16.

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP)



GHS07

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Signal word (CLP)

Warning

Hazard statements (CLP)

H319 Causes serious eye irritation.

H317 May cause an allergic skin reaction.

Precautionary statements (CLP)

P280 - Wear eye protection, face protection.

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

P302 + P352 IF ON SKIN: Wash with plenty of soap and water.

2.3. Other hazards

None known.

SECTION 3: Composition/information on ingredients

3.1. Substance

Formula	3-(NO ₂)C ₆ H ₄ SO ₃ Na	C ₆ H ₄ NNaO ₅ S (Hill)
Index-No.	609-048-00-2	
EC-No.	204-857-3	
Molar mass	225.16 g/mol	

Hazardous components (REGULATION (EC) No 1272/2008)

Chemical name (Concentration)

CAS-No.

sodium 3-nitrobenzenesulphonate (<= 100 %)
127-68-4

Registration number

01-2119965131-44

Classification

Eye irritation, Category 2, H319
Skin sensitisation, Category 1, H317

3.2 Mixture

Not applicable.

SECTION 4: First aid measures

4.1. Description of first aid measures

After inhalation:

fresh air.

In case of skin contact:

Take off immediately all contaminated clothing. Rinse skin with water/ shower. Consult a physician.

After eye contact:

rinse out with plenty of water. Call in ophthalmologist. Remove contact lenses.

After swallowing:

immediately make victim drink water (two glasses at most). Consult a physician.

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

irritant effects, Allergic reactions

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

No information available.



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SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media:

Foam, Carbon dioxide (CO₂), Dry powder, Water

Unsuitable extinguishing media:

For this substance/mixture no limitations of extinguishing agents are given.

5.2. Special hazards arising from the substance or mixture

Combustible.

Development of hazardous combustion gases or vapours possible in the event of fire.

Fire may cause evolution of:

Sulphur oxides, nitrogen oxides

5.3. Advice for firefighters

Special protective equipment for firefighters

Stay in danger area only with self-contained breathing apparatus. Prevent skin contact by keeping a safe distance or by wearing suitable protective clothing.

Further information

Suppress (knock down) gases/vapours/mists with a water spray jet. Prevent fire extinguishing water from contaminating surface water or the ground water system.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Avoid inhalation of dusts. Avoid substance contact. Ensure adequate ventilation. Evacuate the danger area, observe emergency procedures, consult an expert.

For emergency responders

Protective equipment see section 8.

6.2. Environmental precautions

Do not let product enter drains.

6.3. Methods and material for containment and cleaning up

Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions (see sections 7 and 10). Take up dry. Dispose of properly. Clean up affected area. Avoid generation of dusts.

6.4. Reference to other sections

Indications about waste treatment see section 13.



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SECTION 7: Handling and storage**7.1. Precautions for safe handling****Advice on safe handling**

Observe label precautions.

Hygiene measures

Immediately change contaminated clothing. Apply preventive skin protection. Wash hands and face after working with substance.

7.2. Conditions for safe storage, including any incompatibilities**Storage conditions**

Tightly closed. Dry.

Recommended storage temperature

see product label.

7.3. Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated.

SECTION 8: Exposure controls/personal protection**8.1 Control parameters**

Contains no substances with occupational exposure limit values.

8.2. Exposure controls**Engineering measures**

Technical measures and appropriate working operations should be given priority over the use of personal protective equipment. See section 7.1.

Individual protection measures

Protective clothing needs to be selected specifically for the workplace, depending on concentrations and quantities of the hazardous substances handled. The chemical resistance of the protective equipment should be enquired at the respective supplier.

Eye/face protection

Safety glasses

Hand protection

full contact:

Glove material:	Nitrile rubber
Glove thickness:	0.11 mm
Break through time:	> 480 min

splash contact:

Glove material:	Nitrile rubber
Glove thickness:	0.11 mm
Break through time:	> 480 min

The protective gloves to be used must comply with the specifications of EC Directive 89/686/EEC and the related standard EN374, for example KCL 741 Dermatril® L (full contact), KCL 741 Dermatril® L (splash contact). The breakthrough times stated above were determined by KCL in laboratory tests acc. to EN374 with samples of the recommended glove types.

This recommendation applies only to the product stated in the safety data sheet(>,<) supplied by us and for the designated use. When dissolving in or mixing with other substances and under conditions deviating from those stated in EN374 please contact the supplier of CE-approved gloves.



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Other protective equipment

protective clothing

Respiratory protection

required when dusts are generated.

Recommended Filter type: Filter P 2 (acc. to DIN 3181) for solid and liquid particles of harmful substances

The entrepreneur has to ensure that maintenance, cleaning and testing of respiratory protective devices are carried out according to the instructions of the producer.

SECTION 9: Physical and chemical properties**9.1. Information on basic physical and chemical properties**

Form	granules
Colour	yellow
Odour	odourless
Odour	Threshold Not applicable
pH	8 at 50 g/l (23 °C)
Melting point	350 °C (decomposition)
Boiling point	No information available.
Flash point	No information available.
Ignition temperature	355 °C
Evaporation rate	No information available.
Flammability (solid, gas)	No information available.
Lower explosion limit	No information available.
Upper explosion limit	No information available.
Vapour pressure	No information available.
Relative vapour density	No information available.
Density	0.45 g/cm ³ at 20 °C
Bulk density	450 kg/m ³
Relative density	No information available.
Water solubility	200 g/l at 20 °C
Partition coefficient: n-octanol/water	log Pow: -2.61
	Bioaccumulation is not expected.
Auto-ignition temperature	No information available.
Decomposition temperature	No information available.
Viscosity, dynamic	No information available.
Explosive properties	Not classified as explosive.
Oxidizing properties	none

9.2. Other information

No additional information available.

SECTION 10: Stability and reactivity**10.1. Reactivity**

The following applies in general to flammable organic substances and mixtures: in correspondingly fine distribution, when whirled up a dust explosion potential may generally be assumed.

10.2. Chemical stability

The product is chemically stable under standard ambient conditions (room temperature).

10.3. Possibility of hazardous reactionsViolent reactions possible with:
Strong oxidizing agents



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10.4. Conditions to avoid

Strong heating (decomposition).

10.5. Incompatible materials

no information available

10.6. Hazardous decomposition products

in the event of fire: See section 5.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute oral toxicity

LD50 Rat: > 2,000 mg/kg

Symptoms:

Irritations of mucous membranes in the mouth, pharynx, oesophagus and gastrointestinal tract.

Acute dermal toxicity

This information is not available.

Acute inhalation toxicity

Symptoms: Possible damages: mucosal irritations

Skin corrosion/irritation

Rabbit

Result: No irritation

Serious eye damage/eye irritation

Rabbit

Result: Eye irritation

Causes serious eye irritation.

Respiratory or skin sensitisation

May cause an allergic skin reaction.

Germ cell mutagenicity

This information is not available.

Carcinogenicity

This information is not available.

Reproductive toxicity

This information is not available.

STOT - single exposure

This information is not available.

STOT - repeated exposure

This information is not available.

Aspiration toxicity

This information is not available.

Further information

After absorption of toxic quantities:

Methaemoglobinemia

Other dangerous properties can not be excluded.



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SECTION 12: Ecological information

12.1 Toxicity

Toxicity to fish

LC50 *Leuciscus idus* (Golden orfe): > 100 mg/l; 96 h

12.2 Persistence and degradability

Chemical Oxygen Demand (COD)

820 mg/g

12.3 Bioaccumulative potential

Partition coefficient: n-octanol/water

log Pow: -2.61

Bioaccumulation is not expected.

12.4 Mobility in soil

No information available.

12.5 Results of PBT and vPvB assessment

According to the results of his assessment, this substance is neither a PBT nor a vPvB substance.

12.6 Other adverse effects

Discharge into the environment must be avoided.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Waste material must be disposed of in accordance with the national and local regulations. Leave chemicals in original containers. No mixing with other waste.
Handle uncleaned containers like the product itself.

Notice Directive on waste 2008/98/EC.

SECTION 14: Transport information

14.1 UN number

Not regulated as a dangerous good

14.2 UN proper shipping name

Not regulated as a dangerous good

14.3 Transport hazard class(es)

Not regulated as a dangerous good

14.4 Packing group

Not regulated as a dangerous good

14.5 Environmental hazards

Not regulated as a dangerous good

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14.6 Special precautions for user

Not applicable

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

SECTION 15: Regulatory information

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

EU regulations

Major Accident Hazard Legislation

SEVESO III
Not applicable

Occupational restrictions

Take note of Dir 94/33/EC on the protection of young people at work.

Regulation (EC) No 1005/2009 on substances that deplete the ozone layer

not regulated

Regulation (EC) No 850/2004 of the European Parliament and of the Council of 29 April 2004 on persistent organic pollutants and amending Directive 79/117/EEC

not regulated

Substances of very high concern (SVHC)

This product does not contain substances of very high concern according to Regulation (EC) No 1907/2006 (REACH), Article 57 above the respective regulatory concentration limit of $\geq 0.1\%$ (w/w).

National legislation

Storage class

10-13

15.2. Chemical Safety Assessment

For this product a chemical safety assessment was not carried out.

SECTION 16: Other information

Further information

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

Full text of H-Statements referred to under sections 2 and 3.

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

Training advice

Provide adequate information, instruction and training for operators.