

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



NITRALZ® 2,3-Dichlorbenzonnitrile

Version 2.1 / REG_EU

Revision Date: 25.11.2020

Specification: 177972

Material no.:

Date of first issue: 19.11.2015

Print Date: 26.11.2020

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

1.1 Product identifier

Trade name : NITRALZ® 2,3-Dichlorbenzonnitrile
Registration number : 01-2120735528-48-0000
CAS-No. : 6574-97-6
EC-No. : 625-309-3

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

Use of the Sub-
stance/Mixture : intermediate

1.3 Details of the supplier of the safety data sheet

Company : AlzChem Trostberg GmbH
Dr.-Albert-Frank-Str. 32
83308 Trostberg, Germany
Telephone : +49 8621 86-3351
E-mail address of person
responsible for the SDS : alz-pst@alzchem.com

1.4 Emergency telephone number

Emergency telephone num-
ber : +49 8621 86-2776
AlzChem Trostberg GmbH, Fire Brigade

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Acute toxicity, Category 4 : H302: Harmful if swallowed.
Acute toxicity, Category 4 : H312: Harmful in contact with skin.
Eye irritation, Category 2 : H319: Causes serious eye irritation.
Long-term (chronic) aquatic hazard, Cat-
egory 3 : H412: Harmful to aquatic life with long lasting ef-
fects.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

SAFETY DATA SHEET

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Hazard pictograms :



Signal word : Warning

Hazard statements :
H302 Harmful if swallowed.
H312 Harmful in contact with skin.
H319 Causes serious eye irritation.
H412 Harmful to aquatic life with long lasting effects.

Precautionary statements : **Prevention:**
P280 Wear protective gloves/protective clothing/eye protection/face protection.
Response:
P301 + P312 IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.
P330 Rinse mouth.
P302 + P352 IF ON SKIN: Wash with plenty of soap and water.
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Disposal:
P501 Dispose of contents/ container to an approved waste disposal plant.

2.3 Other hazards

A PBT/vPvB evaluation is not available, since a chemical safety evaluation is not required / has not been carried out
Dust can form an explosive mixture in air.

SECTION 3: Composition/information on ingredients

3.1 Substances

Substance name : 2,3-Dichlorbenzonnitrile

Components

Chemical name	CAS-No. EC-No.	Concentration (% w/w)
2,3-dichlorobenzonnitrile	6574-97-6 625-309-3	>= 99,5

SAFETY DATA SHEET

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SECTION 4: First aid measures

4.1 Description of first aid measures

- General advice : Seek medical advice in case of symptoms caused by eye or skin contact, inhalation or swallowing.
Change contaminated, soaked clothes.
- If inhaled : Bring affected person outside and ensure that he/she is comfortable.
- In case of skin contact : Wash off with plenty of water and soap immediately.
- In case of eye contact : Open the eyes and rinse thoroughly with plenty of water.
- If swallowed : Clean mouth with water and drink afterwards plenty of water.
Do NOT induce vomiting.

4.2 Most important symptoms and effects, both acute and delayed

None known.

4.3 Indication of any immediate medical attention and special treatment needed

- || Treatment : Treat symptomatically.

SECTION 5: Firefighting measures

5.1 Extinguishing media

- Suitable extinguishing media : Water spray, foam, CO₂, dry powder.
- Unsuitable extinguishing media : high volume water jet

5.2 Special hazards arising from the substance or mixture

- Hazardous combustion products : Carbon oxides
Nitrogen oxides (NO_x)
hydrogen chloride (HCl)
Hydrocyanic acid (HCN)

5.3 Advice for firefighters

- Special protective equipment for firefighters : In the case of fire, wear respiratory protective equipment independent of surrounding air and chemical protective suit.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

- Personal precautions : Wear personal protective equipment; see section 8.
Avoid formation of dust. Ensure sufficient ventilation.

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6.2 Environmental precautions

Environmental precautions : Product or extinguishing water with product must not be allowed to enter soil, sewers or natural bodies of water.

6.3 Methods and material for containment and cleaning up

Methods for cleaning up : Absorb mechanically avoiding production of dust. Keep in suitable, closed containers for disposal.

6.4 Reference to other sections

|| For disposal considerations see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advice on safe handling : The substance must be handled under strictly controlled conditions in accordance with Article 17/18 of the REACH regulation. Provide appropriate exhaust ventilation at machinery and at places where dust can be generated. Avoid dust formation.

Advice on protection against fire and explosion : Keep away from flames / sparks, no smoking. Take precautionary measures against static discharges.

Hygiene measures : Do not breathe vapours/dust. Avoid contact with skin, eyes and clothing. Wash contact areas after handling. Take off clothing and shoes contaminated with product. Clean before reuse. Do not eat, drink or smoke while working. Wash hands, and/or face before breaks and when workday is finished. Keep away from food, drink and animal feedingstuffs.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers : Keep containers tightly closed in a dry, cool and well-ventilated place.

Storage class (TRGS 510) : 11, Combustible Solids

7.3 Specific end use(s)

|| Specific use(s) : We are unaware of any specific end uses which go beyond the data reported in Section 1.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:

Substance name	End Use	Exposure routes	Potential health effects	Value
2,3-	DNEL not			

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dichlorobenzonitrile	necessary (Use as an intermediate)			
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Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006:

Substance name	Environmental Compartment	Value
2,3-dichlorobenzonitrile	PNEC not necessary (Use as an intermediate)	

8.2 Exposure controls

Personal protective equipment

- Eye protection : Safety glasses
When handling hot molten mass:
Tightly fitting safety goggles
- Hand protection
- Material : Chloroprene, Recommendation: Camapren 722
Break through time : 480 min
Glove thickness : 0,6 mm
Directive : DIN EN 374
Manufacturer : Kächele-Cama Latex GmbH (KCL), Germany
- Material : Nitrile rubber, Recommendation: Camatril 730
Break through time : 480 min
Glove thickness : 0,4 mm
Directive : DIN EN 374
Manufacturer : Kächele-Cama Latex GmbH (KCL), Germany
- Skin and body protection : Protective clothing
- Respiratory protection : not required under normal use
In case product dust is released:
Respirator according to EN 149 FFP3

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

- Appearance : solid
- Colour : white
- pH : no data available
- Melting point/range : 62 - 65 °C
- Boiling point/boiling range : 253,1 °C (1.013,25 hPa)
literature
- Flash point : 108 °C
literature
- Partition coefficient: n- : Pow: 2,7 - 3

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Components:

2,3-dichlorobenzonitrile:

- Acute oral toxicity : LD50 (rat): 550 mg/kg
Method: OECD TG 425
Assessment: Harmful if swallowed.
Remarks: Own test result.
- Acute inhalation toxicity : Remarks: no data available
- Acute dermal toxicity : Assessment: Harmful in contact with skin.
Remarks: The data are derived from the evaluations or test results achieved with similar products (conclusion by analogy).

Skin corrosion/irritation

Components:

2,3-dichlorobenzonitrile:

- Remarks : no data available

Serious eye damage/eye irritation

Product:

- Assessment : Causes serious eye irritation.

Components:

2,3-dichlorobenzonitrile:

- Result : irritating
Remarks : conclusion by analogy

Respiratory or skin sensitisation

Components:

2,3-dichlorobenzonitrile:

- Remarks : no data available

Germ cell mutagenicity

Components:

2,3-dichlorobenzonitrile:

- Germ cell mutagenicity- Assessment : no evidence of mutagenic effects, calculated (QSAR)

SAFETY DATA SHEET

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Carcinogenicity

Components:

2,3-dichlorobenzonitrile:

Carcinogenicity - Assessment : no data available

Reproductive toxicity

Components:

2,3-dichlorobenzonitrile:

Reproductive toxicity - Assessment : no data available

STOT - single exposure

Components:

2,3-dichlorobenzonitrile:

Remarks : No data available

STOT - repeated exposure

Components:

2,3-dichlorobenzonitrile:

Remarks : No data available

Aspiration toxicity

Components:

2,3-dichlorobenzonitrile:

No data available

Further information

Product:

Remarks : No additional toxicological data are available.
The product has not yet been tested. The indicated data are derived from products with similar composition.

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



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SECTION 12: Ecological information

12.1 Toxicity

Product:

Ecotoxicology Assessment

Chronic aquatic toxicity : Harmful to aquatic life with long lasting effects.

Components:

2,3-dichlorobenzonitrile:

Toxicity to fish : (Cyprinus carpio (Carp)): 24 mg/l
Exposure time: 96 h
Test Type: LC50
Remarks: The data are derived from the evaluations or test results achieved with similar products (conclusion by analogy).

(Fish): 10 - 100 mg/l
Test Type: LC50
Remarks: QSAR-Method

Toxicity to daphnia and other aquatic invertebrates : EC50 : 15,6 mg/l
Exposure time: 48 h
Remarks: QSAR-Method (literature value)

Toxicity to microorganisms : (Pseudomonas putida): ca. 79 mg/l
Exposure time: 17 h
Remarks: This information is derived from evaluation of or a test result for a similar compound (conclusion based on analogy).

12.2 Persistence and degradability

Components:

2,3-dichlorobenzonitrile:

Biodegradability : Remarks: Not readily biodegradable.
The data are derived from the evaluations or test results achieved with similar products (conclusion by analogy).

12.3 Bioaccumulative potential

Product:

Bioaccumulation : Remarks: No bioaccumulation is to be expected (log Pow <= 4).

Components:

2,3-dichlorobenzonitrile:

Bioaccumulation : Remarks: No bioaccumulation is to be expected (log Pow <=

SAFETY DATA SHEET

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4).

12.4 Mobility in soil

no data available

12.5 Results of PBT and vPvB assessment

Product:

Assessment : A PBT/vPvB evaluation is not available, since a chemical safety evaluation is not required / has not been carried out.

12.6 Other adverse effects

Product:

Additional ecological information : No further ecotoxicological data are available. The product has not yet been tested. The indicated data are derived from products with similar composition. Do not allow to enter waste water drains, watercourse or soil.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product : Must be brought to an adequate waste treatment facility, in conformity with applicable waste disposal regulations.

Contaminated packaging : Packaging, that can not be reused after cleaning must be disposed or recycled in accordance with all federal, national and local regulations.

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

Remarks : Not classified as dangerous in the meaning of transport regulations.

ADR : Not regulated as a dangerous good

RID : Not regulated as a dangerous good

IMDG : Not regulated as a dangerous good

Remarks : Not classified as dangerous in the meaning of transport regulations.

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IATA (Cargo) : Not regulated as a dangerous good
Remarks : Not classified as dangerous in the meaning of transport regulations.

IATA (Passenger) : Not regulated as a dangerous good

14.5 Environmental hazards

Not regulated as a dangerous good

14.6 Special precautions for user

Remarks : Not classified as dangerous in the meaning of transport regulations.

14.7 Transport in bulk according to Annex II of Marpol 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

15.2 Chemical safety assessment

No substance safety assessment is required for this product because it is an internal local intermediate product and/or a transported intermediate product.

SECTION 16: Other information

Full text of other abbreviations

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road; AICS - Australian Inventory of Chemical Substances; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No

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Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of Very High Concern; TCSI - Taiwan Chemical Substance Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

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.

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