

Safety Data Sheet

according to Regulation (EC) No 1907/2006 (REACH) Classifications according to Regulation (EC) No 1272/2008. Printdate 19 Feb 2024

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product name:

Dinotefuran

1.1. Catalog No.:

691780

1.2. Relevant identified uses of the substance or mixture

Identified: Laboratory chemical uses: R&D

uses:

1.3. Uses advised against:

HPC Standards GmbH Am Wieseneck 7

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1.4. Emergency telephone number

HPC Standards Tel. +49 34291 3372-36 This number is only available during office hours.

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture 2.1 Classification of the substance of mixture Classification according to Regulation (EC) No 1272/2008

Acute toxicity, Oral (Category 4), H302 Classification according to EU Directives 67/548/EEC or 1999/45/EC Xn, N Harmful, Dangerous for the environment R22, R53, R56, R57

2.2. Label elements

2.2.1. Pictogram



2.2.2.

Signal word Warning Hazard statement(s) H302 Harmful if swallowed.



Precautionary statement(s) none Supplemental Hazard None Statements 2.3 Other hazards - none

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances
Synonyms: 1-Methyl-2-nitro-3-[(3-tetrahydrofuryl)methyl]guanidine
(RS)-N-Methyl-N'-nitro-N''-[(tetrahydro-3-furanyl)methyl]guanidine
Formula: C7H14N4O3
Molecular weight: 202,21 g/mol
CAS-No.: 165252-70-0
Hazardous ingredients according to Regulation (EC) No 1272/2008
Component Classification Concentration
1-Methyl-2-nitro-3-[(3-tetrahydrofuryl)methyl]guanidine
CAS-No.
165252-70-0
Acute Tox. 4; H302 <= 100 %

3.1.1. Formula

C7H14N4O3

3.1.2. Molecular Weight (g/mol)

202.21

3.1.3. CAS-No.

165252-70-0



4. FIRST AID MEASURES

4.1 Description of 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

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

If swallowed

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

4.2 Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in

4.3 Indication of any immediate medical attention and special treatment needed

No data available

5. FIRE-FIGHTING MEASURES

5.1 Extinguishing media

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

5.2 Special hazards arising from the substance or mixture

Carbon oxides, nitrogen oxides (NOx) 5.3 Advice for firefighters

Wear self contained breathing apparatus for fire fighting if necessary.

5.4 Further information

no data available

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures
Use personal protective equipment. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Avoid breathing dust.
For personal protection see section 8.
6.2 Environmental precautions
De not let product enter drains

Do not let product enter drains.

6.3 Methods and materials for containment and cleaning up

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

6.4 Reference to other sections

For disposal see section 13.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling

Avoid contact with skin and eyes. Avoid formation of dust and aerosols.



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Provide appropriate exhaust ventilation at places where dust is formed. Normal measures for preventive fire

protection.
For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities Store in cool place. Keep container tightly closed in a dry and well-ventilated place.

Light sensitive. Store under inert gas. 7.3 Specific end use(s)

A part from the uses mentioned in section 1.2 no other specific uses are stipulated

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters Components with workplace control parameters 8.2 Exposure controls

Appropriate engineering controls
Appropriate engineering controls
Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.
Personal protective equipment

Eye/face protection

Safety glasses with side-shields conforming to EN166 Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's 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.

Body Protection

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

Respiratory protection

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

Do not let product enter drains.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties a) Appearance Form: crystalline

Colour: white

b) Odour No data available

c) Odour Threshold No data available

d) pH No data available

e) Melting point/freezing

point 106 - 111



10. STABILITY AND REACTIVITY

10.1 Reactivity no data available 10.2 Chemical stability Stable under recommended storage conditions. 10.3 Possibility of hazardous reactions no data available 10.4 Conditions to avoid Exposure to sunlight. 10.5 Incompatible materials Strong oxidizing agents
10.6 Hazardous decomposition products Other decomposition products - no data available In the event of fire: see section 5

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects Acute toxicity LD50 Oral - Rat - male - 2.804 mg/kg LD50 Oral - Rat - female - 2.000 mg/kg LD50 Dermal - Rat - > 2.000 mg/kg Skin corrosion/irritation Skin - Rabbit Result: Mild skin irritation Serious eye damage/eye irritation

Eyes - Rabbit Result: Mild eye irritation Respiratory or skin sensitisation

Guinea pig

Did not cause sensitisation on laboratory animals. 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

Specific target organ toxicity - repeated exposure
No data available
Aspiration hazard

No data available Additional Information RTECS: Not available

12. ECOLOGICAL INFORMATION

12.1 Toxicity

Toxicity to fish LC50 - Lepomis macrochirus (Bluegill) - > 1.000 mg/l - 96 h

LC50 - other fish - 4,84 mg/l - 48 h

Toxicity to daphnia and other aquatic invertebrates EC50 - Daphnia - > 1.000 mg/l - 48 h



LC50 - Crangon crangon (shrimp) - 0,79 mg/l - 96 h

Toxicity to algae EbC50 - Pseudokirchneriella subcapitata (green algae) - > 100 mg/l - 72 h 12.2 Persistence and degradability
Biodegradability aerobic - Exposure time 138,4 d
Remarks: According to the results of tests of biodegradability this product is not readily biodegradable.
12.3 Bioaccumulative potential no data available
12.4 Mobility in soil no data available
12.5 Results of PBT and vPvB assessment

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted 12.6 Other adverse effects

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods Product

Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber. Contaminated packaging Dispose of as unused product.

14. TRANSPORT INFORMATION

14.1 UN number
ADR/RID: - IMDG: - IATA: 14.2 UN proper shipping name
ADR/RID: Not dangerous goods
IMDG: Not dangerous goods
IATA: Not dangerous goods
14.3 Transport hazard class(es)
ADR/RID: - IMDG: - IATA: 14.4 Packaging group
ADR/RID: - IMDG: - IATA: 14.5 Environmental hazards
ADR/RID: no IMDG Marine pollutant: no IATA: no
14.6 Special precautions for user
no data available

15. REGULATORY INFORMATION

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006. 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

no data available

15.2 Chemical Safety Assessment



For this product a chemical safety assessment was not carried out

16. OTHER 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. For lab use only!