

Safety Data Sheet

according to Regulation (EC) No 1907/2006 (REACH) Classifications according to Regulation (EC) No 1272/2008. Printdate 31 Aug 2023

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

1.1. Product name:

2-Methyl-5-nitro-1H-imidazol

1.1. Catalog No.:

679179

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

04451 Cunnersdorf Deutschland

Tel. +49 34291 3372-36 Fax. +49 34291 3372-39 contact@hpc-standards.com

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
- Classification according to Regulation (EC) No 1272/2008

2.2. Label elements

2.2.1. Pictogram



2.2.2.

· 2.2 Label elements

· Labelling according to Regulation (EC) No 1272/2008

The substance is classified and labelled according to the CLP regulation.

· Signal word Warning

Häzard statements

H302 Harmful if swallowed.

· Precautionary statements



P264 Wash thoroughly after handling.
P270 Do not eat, drink or smoke when using this product.
P301+P312 IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.
P330 Rinse mouth.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

- 2.3 Other hazards
 Results of PBT and vPvB assessment
- PBT: Not applicable.
 vPvB: Not applicable.

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Chemical characterisation: Substances
 CAS No. Description
 696-23-1 2-Methyl-4-nitroimidazole
 Identification number(s) None
 EC number: 211-790-3
 RTECS: NI 7550000

Additional information: For the wording of the

- · Additional information: For the wording of the listed hazard phrases refer to section 16.

3.1.1. Formula

C4H5N3O2

3.1.2. Molecular Weight (g/mol)

127.10

3.1.3. CAS-No.

696-23-1



4. FIRST AID MEASURES

- 4.1 Description of first aid measures
- General information:

Symptoms of poisoning may occur even after several hours; therefore medical observation for at least 48 hours after the accident is recommended.

- After inhalation: Supply fresh air; consult doctor in case of complaints.
- After skin contact: Immediately wash with water and soap and rinse thoroughly.
 After eye contact: Rinse opened eye for several minutes under running water.

After swallowing:

Rinse mouth. Do not induce vomiting.

Seek medical treatment.

- · 4.2 Most important symptoms and effects, both acute and delayed No further relevant information available.
- 4.3 Indication of any immediate medical attention and special treatment needed

No further relevant information available.

5. FIRE-FIGHTING MEASURES

5.1 Extinguishing media
Suitable extinguishing agents: Use fire extinguishing methods suitable for surrounding conditions.
5.2 Special hazards arising from the substance or mixture

Formation of toxic gases is possible during heating or in case of fire.

5.3 Advice for firefighters
 Protective equipment: Wear self-contained respiratory protective device.

6. ACCIDENTAL RELEASE MEASURES

- 6.1 Personal precautions, protective equipment and emergency procedures Wear protective clothing.
 6.2 Environmental precautions: Do not allow to enter sewers/ surface or ground water.
 6.3 Methods and material for containment and cleaning up: Pick up mechanically.

6.4 Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment. See Section 13 for disposal information.

7. HANDLING AND STORAGE

- 7.1 Precautions for safe handling Store in cool, dry place in tightly closed receptacles.
 Information about fire and explosion protection: No special measures required.
 7.2 Conditions for safe storage, including any incompatibilities

· Storage:

· Requirements to be met by storerooms and receptacles:

Please refer to the manufacturers certificate for specific storage and transport temperature conditions.

Store only in the original receptacle unless other advice is given on the CoA.

Keep container in a well-ventilated place. Keep away from sources of ignition and heat.

Information about storage in one common storage facility: Store away from foodstuffs.
 Further information about storage conditions: None.

· 7.3 Specific end use(s) No further relevant information available.



8. EXPOSURE CONTROLS/PERSONAL PROTECTION

- · Additional information about design of technical facilities: No further data; see item 7.
- · 8.1 Control parameters
- Ingredients with limit values that require monitoring at the workplace: Not required.
 Additional information: Lists used were valid at the time of SDS preparation.
- · 8.2 Exposure controls
- Personal protective equipment:
 General protective and hygienic measures: Wash hands before breaks and at the end of work.
- Respiratory protection:

Not required.

Use suitable respiratory protective device in case of insufficient ventilation.

Protection of hands:

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

The protective gloves to be used must comply with the specifications of EC Directive 89/686/EEC and the related standard EN374

 Penetration time of glove material
 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

9. PHYSICAL AND CHEMICAL PROPERTIES

- · 9.1 Information on basic physical and chemical properties
- · General Information
- · Appearance:

Form: Solid

Colour: Light yellow

- Odour: Amine-like
- · Odour threshold: Not determined.
- pH-value: Not applicable.Change in condition

Melting point/freezing point: 252-254 °C Initial boiling point and boiling range: 400 °C · Flash point: Not applicable.

- Flammability (solid, gas): Not determined.
 Ignition temperature: Not determined
- Decomposition temperature: Not determined.
 Auto-ignition temperature: Not determined.
- Explosive properties: Not determined.
 Explosion limits:

- Explosion limits:
 Lower: Not determined.
 Upper: Not determined.
 Vapour pressure: Not applicable.
 Density at 20 °C: 1.43 g/cm³
 Relative density Not determined.
 Vapour density Not applicable.
 Exportation rate Not applicable.

- Evaporation rate Not applicable.
 Solubility in / Miscibility with Chloroform, DMSO
 water: Not determined.
 Partition coefficient: n-octanol/water: Not determined.

 Viscosity:
 Dynamic: Not applicable. Kinematic: Not applicable.

· 9.2 Other information No further relevant information available.



Stable under normal conditions.

No further relevant information available.

· 10.2 Chemical stability Stable under normal conditions.

Thermal decomposition / conditions to be avoided:

Formation of toxic gases is possible during heating or in case of fire.

10.3 Possibility of hazardous reactions No dangerous reactions known.

- 10.4 Conditions to avoid Heat.
 10.5 Incompatible materials: Strong oxidizing agents.

10.6 Hazardous decomposition products:
Formation of toxic gases is possible during heating or in case of fire.

11. TOXICOLOGICAL INFORMATION

- · 11.1 Information on toxicological effects

Acute toxicity
 Harmful if swallowed.
 LD/LC50 values relevant for classification:
 Oral LD50 1,540 mg/kg (rat)
 Primary irritant effect:
 Skip correction (withting Board on available).

- · Skin corrosion/irritation Based on available data, the classification criteria are not met.
- · Serious eye damage/irritation Based on available data, the classification criteria are not met.
- · Respiratory or skin sensitisation Based on available data, the classification criteria are not met.
- CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)
- Germ cell mutagenicity Based on available data, the classification criteria are not met.
 Carcinogenicity Based on available data, the classification criteria are not met.
 Reproductive toxicity Based on available data, the classification criteria are not met.

- STOT-single exposure Based on available data, the classification criteria are not met.
 STOT-repeated exposure Based on available data, the classification criteria are not met.
 Aspiration hazard Based on available data, the classification criteria are not met.

12. ECOLOGICAL INFORMATION

- · 12.1 Toxicity
- · Aquatic toxicity: No further relevant information available.
- Aquatic toxicity. No further relevant information available.
 12.2 Persistence and degradability No further relevant information available.
 12.3 Bioaccumulative potential No further relevant information available.
 12.4 Mobility in soil No further relevant information available.

- Additional ecological information:

General notes:

Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water water course or sewage system.

- 12.5 Results of PBT and vPvB assessment
 PBT: Not applicable.
- vPvB: Not applicable.
- · 12.6 Other adverse effects No further relevant information available.

13. DISPOSAL CONSIDERATIONS

- · 13.1 Waste treatment methods
- · Recommendation



Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

European waste catalogue

Waste disposal key numbers from EWC have to be assigned depending on origin and processing.

Uncleaned packaging:
 Recommendation: Dispose of in accordance with national regulations.

14. TRANSPORT INFORMATION

- · 14.1 UN-Number

- 14.1 UN-Number
 ADR, IMDG, IATA Not applicable
 ADR, IMDG, IATA Not applicable
 14.3 Transport hazard class(es)
 ADR, ADN, IMDG, IATA
 Class Not applicable
 14.4 Packing group
 ADR, IMDG, IATA Not applicable
 14.5 Environmental hazards: Not applicable.
 14.6 Special precautions for user Not applicable.
 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code Not applicable.
 UN "Model Regulation": Not applicable

15. REGULATORY INFORMATION

- 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
 Directive 2012/18/EU
- · Named dangerous substances ANNEX I Substance is not listed.
- · 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been 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!