

Safety Data Sheet

according to UK REACH Regulation

(+)-HNO-Hydrochloride (GMP)

Revision date: 24.03.2022

Product code: 1647

Page 1 of 4

SECTION 1: Identification of the substance/mixture and of the company/undertaking**1.1. Product identifier**

(+)–HNO–Hydrochloride (GMP)

Further trade names

2H-Naphtho[1,2-b]-1,4-oxazin-9-ol, 3,4,4a,5,6,10b-hexahydro-, hydrochloride (1:1), (4aR,10bR)

Synonyms:

(4aR,10bR)- 3,4,4a,5,6,10b-hexahydro-2H-Naphth[1,2-b]-1,4-oxazin-9-ol, hydrochloride; (+)

-3,4,4a,5,6,10b-Hexahydro-2H-naphtho[1,2-β][1,4]oxazin-9-ol hydrochloride; (4aR,10bR)

-3,4,4a,5,6,10b-Hexahydro-2H-Naphth[1,2-β]-1,4-oxazin-9-ol, hydrochloride; (+)-HNO

[11C](+)-PHNO = [11C](+)-4-Propyl-3,4,4a,5,6,10b-hexahydro-2H-naphtho[1,2-b][1,4]oxazin-9-ol

[18F](+)-F-PHNO = [18F](+)-4-Fluoropropyl-3,4,4a,5,6,10b-hexahydro-2H-naphtho[1,2-b][1,4]oxazin-9-ol

CAS No: 858517-21-2

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

Precursor for [11C](+)-PHNO

Precursor for [18F](+)-F-PHNO

1.3. Details of the supplier of the safety data sheet

Company name: ABX advanced biochemical compounds
Biomedizinische Forschungsreagenzien GmbH
Street: Heinrich-Gläser-Straße 10-14
Place: 01454 Radeberg
Telephone: +49 3528 4041 60
e-mail: info@abx.de
Contact person: Dr. Christoph Meyer
e-mail: meyer@abx.de
Internet: http://www.abx.de
Telefax: +49 3528 4041 65
Telephone: +49 3528 4041 8732

1.4. Emergency telephone number:

+49 3528 4041 60

SECTION 2: Hazards identification**2.1. Classification of the substance or mixture****GB CLP Regulation**

This substance is not classified as hazardous in accordance with GB CLP Regulation.

2.2. Label elements**2.3. Other hazards**

Warning - substance not yet tested completely.

SECTION 3: Composition/information on ingredients**3.1. Substances****Chemical characterization**

2H-Naphtho[1,2-b]-1,4-oxazin-9-ol, 3,4,4a,5,6,10b-hexahydro-, hydrochloride (1:1), (4aR,10bR)

Sum formula: C₁₂H₁₅NO₂ · HCl

Molecular weight: 241.71

Hazardous components

none (according to UK REACH Regulation)

Safety Data Sheet

according to UK REACH Regulation

(+)-HNO-Hydrochloride (GMP)

Revision date: 24.03.2022

Product code: 1647

Page 2 of 4

SECTION 4: First aid measures

4.1. Description of first aid measures

After inhalation

Provide fresh air.

After contact with skin

After contact with skin, wash immediately with: Water. Change contaminated clothing.

After contact with eyes

Rinse immediately carefully and thoroughly with eye-bath or water.

After ingestion

Rinse mouth immediately and drink plenty of water. Medical treatment necessary.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing mediaWater spray. Foam. Extinguishing powder. Carbon dioxide (CO₂).

5.2. Special hazards arising from the substance or mixture

In case of fire may be liberated: Carbon dioxide (CO₂). Carbon monoxide Nitrogen oxides (NO_x). Hydrogen chloride (HCl).

5.3. Advice for firefighters

In case of fire: Wear self-contained breathing apparatus.

Additional information

Contaminated fire-fighting water must be collected separately. Do not allow to enter into surface water or drains.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General advice

Wear personal protection equipment. Provide adequate ventilation. Avoid dust formation.

6.2. Environmental precautions

Do not allow to enter into surface water or drains.

6.3. Methods and material for containment and cleaning up

Other information

Take up mechanically. Treat the recovered material as prescribed in the section on waste disposal.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

Do not breathe dust. If handled uncovered, arrangements with local exhaust ventilation have to be used.

Advice on general occupational hygiene

Change contaminated clothing. Wash hands before breaks and after work. When using do not eat or drink.

Protect skin by using skin protective cream.

Further information on handling

When using do not eat, drink, smoke, sniff.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep container dry. Keep container tightly closed.

Safety Data Sheet

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(+)-HNO-Hydrochloride (GMP)

Revision date: 24.03.2022

Product code: 1647

Page 3 of 4

Further information on storage conditions

storage temperature:

of °C: -25

up to °C: -15

Protect against: Light.

Handling and storage Store under (Gas): argon. Nitrogen.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Additional advice on limit values

To date, no national critical limit values exist.

8.2. Exposure controls

Individual protection measures, such as personal protective equipment

Eye/face protection

Eye protection: Tightly sealed safety glasses.

Hand protection

Tested protective gloves are to be worn: Single-use gloves. NBR (Nitrile rubber).

Skin protection

Body protection: Lab apron. Chemical resistant safety shoes.

Respiratory protection

With correct and proper use, and under normal conditions, breathing protection is not required.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state:

solid

Colour:

beige

Changes in the physical state

Water solubility:

easily soluble.

Solubility in other solvents

Methanol. Ethanol dimethylsulphoxide (DMSO).

SECTION 10: Stability and reactivity

10.4. Conditions to avoid

Light.

10.6. Hazardous decomposition products

Carbon dioxide. Carbon monoxide. Nitrogen oxides (NO_x). Hydrochloric gas.

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in GB CLP Regulation

Carcinogenic/mutagenic/toxic effects for reproduction

No information available.

Additional information on tests

The classification was carried out according to the calculation method of the Preparations Directive (1999/45/EC).

Further information

Toxicological data are not available.

Safety Data Sheet

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(+)-HNO-Hydrochloride (GMP)

Revision date: 24.03.2022

Product code: 1647

Page 4 of 4

SECTION 12: Ecological information

12.5. Results of PBT and vPvB assessment

This substance does not meet the PBT/vPvB criteria of UK REACH.

12.6. Endocrine disrupting properties

This substance does not have endocrine disrupting properties with respect to non-target organisms.

Further information

Do not allow to enter into surface water or drains. The classification was carried out according to the calculation method of the Preparations Directive (1999/45/EC).

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal recommendations

Do not allow to enter into surface water or drains. Dispose of waste according to applicable legislation.

List of Wastes Code - residues/unused products

160508 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; gases in pressure containers and discarded chemicals; discarded organic chemicals consisting of or containing hazardous substances; hazardous waste

List of Wastes Code - used product

160508 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; gases in pressure containers and discarded chemicals; discarded organic chemicals consisting of or containing hazardous substances; hazardous waste

List of Wastes Code - contaminated packaging

150110 WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED; packaging (including separately collected municipal packaging waste); packaging containing residues of or contaminated by hazardous substances; hazardous waste

Contaminated packaging

Non-contaminated packages may be recycled. Handle contaminated packages in the same way as the substance itself.

SECTION 14: Transport information

Other applicable information

No dangerous good in sense of these transport regulations.

SECTION 15: Regulatory information

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

National regulatory information

Water hazard class (D): 3 - highly hazardous to water

SECTION 16: Other information