

Safety Data Sheet

according to Regulation (EC) No 1907/2006

HDMA

Revision date: 07.10.2019

Product code: RL-2170

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

HDMA

Further trade names

1-[(Dimethylamino)(morpholino)methylen]-1H-[1,2,3]triazolo[4,5-b]pyridin-1-ium 3-oxid-hexafluorophosphat
N-methyl-N-[4-morpholinyl(3-oxido-1H-1,2,3-triazolo[4,5-b]pyridin-1-yl)methylene]methanaminium,
hexafluorophosphate

CAS No: 958029-37-3

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

Laboratory chemical. Manufacture of the substance.

Uses advised against

Do not use for private purposes (household).

1.3. Details of the supplier of the safety data sheet

| | | |
|-------------------------|-------------------------------------|-----------------------------|
| Company name: | Iris Biotech GmbH | |
| Street: | Adalbert-Zoellner-Straße 1 | |
| Place: | D-95615 Marktredwitz, Germany | |
| Post-office box: | 568 | |
| | D-95605 Marktredwitz, Germany | |
| Telephone: | +49 9231 97121 0 | Telefax: +49 9231 97121 99 |
| e-mail: | info@iris-biotech.de | |
| Contact person: | Compliance Department | Telephone: +49 9231 97121 0 |
| e-mail: | sds@iris-biotech.de | |
| Internet: | www.iris-biotech.de | |
| Responsible Department: | Only available during office hours. | |

1.4. Emergency telephone number: +49 (0)89 19240 (POISON CENTER Munich: 24 h)**SECTION 2: Hazards identification****2.1. Classification of the substance or mixture****Regulation (EC) No. 1272/2008**

Hazard categories:

Acute toxicity: Acute Tox. 4

Acute toxicity: Acute Tox. 4

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Skin corrosion/irritation: Skin Irrit. 2

Serious eye damage/eye irritation: Eye Irrit. 2

Specific target organ toxicity - single exposure: STOT SE 3

Hazard Statements:

Harmful if swallowed.

Harmful in contact with skin.

Harmful if inhaled.

Causes skin irritation.

Causes serious eye irritation.

May cause respiratory irritation.

2.2. Label elements**Regulation (EC) No. 1272/2008****Hazard components for labelling**

1-[(Dimethylamino)(morpholino)methylen]-1H-[1,2,3]triazolo[4,5-b]pyridin-1-ium 3-oxid-hexafluorophosphat

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Signal word: Warning

Pictograms:

Hazard statements

H302+H312+H332 Harmful if swallowed, in contact with skin or if inhaled.
 H335 May cause respiratory irritation.
 H319 Causes serious eye irritation.
 H315 Causes skin irritation.

Precautionary statements

P202 Do not handle until all safety precautions have been read and understood.
 P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
 P262 Do not get in eyes, on skin, or on clothing.
 P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.
 P305 IF IN EYES:
 P351 Rinse cautiously with water for several minutes.
 P338 Remove contact lenses, if present and easy to do. Continue rinsing.

2.3. Other hazards

Warning - substance not yet tested completely.

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

1-[(Dimethylamino)(morpholino)methylen]-1H-[1,2,3]triazolo[4,5-b]pyridin-1-ium 3-oxid-hexafluorophosphat
 N-methyl-N-[4-morpholinyl](3-oxido-1H-1,2,3-triazolo[4,5-b]pyridin-1-yl)methylene]methanaminium,
 hexafluorophosphate

 Sum formula: C₁₂H₁₇F₆N₆O₂P

Molecular weight: 422,27

Hazardous components

| CAS No | Chemical name | Quantity |
|-------------|--|----------|
| | EC No | |
| | Index No | |
| | REACH No | |
| | GHS Classification | |
| 958029-37-3 | HDMA | <= 100 % |
| | Acute Tox. 4, Acute Tox. 4, Acute Tox. 4, Skin Irrit. 2, Eye Irrit. 2, STOT SE 3; H332 H312 H302 H315 H319 H335 | |

Full text of H and EUH statements: see section 16.

Specific Conc. Limits, M-factors and ATE

| CAS No | EC No | Chemical name | Quantity |
|-------------|-------|--|----------|
| | | Specific Conc. Limits, M-factors and ATE | |
| 958029-37-3 | | HDMA | <= 100 % |
| | | inhalation: Data lacking (gases); dermal: Data lacking; oral: Data lacking | |

Further Information

Full text of H- and EUH-phrases: see section 16.

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SECTION 4: First aid measures**4.1. Description of first aid measures****General information**

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

After inhalation

Remove casualty to fresh air and keep warm and at rest. In case of irregular breathing or respiratory arrest provide artificial respiration.

In all cases of doubt, or when symptoms persist, seek medical advice.

After contact with skin

After contact with skin, wash immediately with plenty of water and soap.

In all cases of doubt, or when symptoms persist, seek medical advice.

After contact with eyes

In case of contact with eyes, rinse immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart. Subsequently consult an ophthalmologist.

After ingestion

Rinse mouth thoroughly with water. Never give anything by mouth to an unconscious person or a person with cramps.

In all cases of doubt, or when symptoms persist, seek medical advice.

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

No data available

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

Treat symptomatically.

SECTION 5: Firefighting measures**5.1. Extinguishing media****Suitable extinguishing media**

Water spray. alcohol resistant foam. Dry extinguishing powder. Carbon dioxide (CO₂). Sand.

Unsuitable extinguishing media

High power water jet.

5.2. Special hazards arising from the substance or mixture

Thermal decomposition can lead to the escape of irritating gases and vapours.

In case of fire may be liberated: Carbon dioxide (CO₂). Carbon monoxide Nitrogen oxides (NO_x). Fluorhydric acid.

5.3. Advice for firefighters

Wear a self-contained breathing apparatus and chemical protective clothing.

Additional information

Usual measures for fire prevention.

SECTION 6: Accidental release measures**6.1. Personal precautions, protective equipment and emergency procedures****General advice**

Provide adequate ventilation. Avoid breathing dust/fume/gas/mist/vapours/spray.

Avoid contact with skin, eyes and clothes.

Wear personal protection equipment.

In case of fire: Evacuate area.

6.2. Environmental precautions

Do not allow to enter into soil/subsoil.

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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, placing in appropriate containers for disposal. Avoid dust formation.
Clear contaminated areas thoroughly.

6.4. Reference to other sections

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**

Provide adequate ventilation.
Avoid dust formation. Avoid breathing dust/fume/gas/mist/vapours/spray.
Avoid contact with skin, eyes and clothes.

Advice on protection against fire and explosion

Usual measures for fire prevention.

Advice on general occupational hygiene

Avoid contact with skin, eyes and clothes. Provide adequate ventilation. When using do not eat, drink or smoke. Wash hands before breaks and after work.

Further information on handling

No data available

7.2. Conditions for safe storage, including any incompatibilities**Requirements for storage rooms and vessels**

Keep container tightly closed in a cool, well-ventilated place.
Handle and store contents under inert gas. Protect from moisture.
storage temperature: +2°C - +8°C

Further information on storage conditions

Keep under nitrogen.
Sensitivity to light.
Keep away from sources of heat (e.g. hot surfaces), sparks and open flames.

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****Additional advice on limit values**

No data available

8.2. Exposure controls**Appropriate engineering controls**

The receiver of our product is singularly responsible for adhering to existing laws and regulations.

Individual protection measures, such as personal protective equipment**Eye/face protection**

Wear eye/face protection.

Hand protection

Wear suitable gloves.
The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances.
For special purposes, it is recommended to check the resistance to chemicals of the protective gloves

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mentioned above together with the supplier of these gloves.

Skin protection

Wear suitable protective clothing.

Respiratory protection

If technical exhaust or ventilation measures are not possible or insufficient, respiratory protection must be worn.

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

| | |
|---|-------------------|
| Physical state: | solid |
| Colour: | No data available |
| Odour: | No data available |
| Changes in the physical state | |
| Melting point/freezing point: | 218 °C |
| Boiling point or initial boiling point and boiling range: | No data available |
| Sublimation point: | No data available |
| Flash point: | No data available |

Explosive properties

No data available

| | |
|----------------------------|-------------------|
| Auto-ignition temperature: | No data available |
| pH-Value: | No data available |

Solubility in other solvents

No data available

9.2. Other information**Information with regard to physical hazard classes**

| | |
|------------------------|-------------------|
| Sustaining combustion: | No data available |
|------------------------|-------------------|

Other safety characteristics**Further Information**

No data available

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

No data available

10.2. Chemical stability

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

10.3. Possibility of hazardous reactions

No data available

10.4. Conditions to avoid

Protect from moisture.
Keep away from heat.

10.5. Incompatible materials

Oxidizing agents, strong.

10.6. Hazardous decomposition products

Thermal decomposition can lead to the escape of irritating gases and vapours.

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

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fluoride.

SECTION 11: Toxicological information
11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008
Toxicokinetics, metabolism and distribution

No data available

Acute toxicity

No data available

| CAS No | Chemical name | | | | |
|-------------|----------------|--------------|---------|--------|--------|
| | Exposure route | Dose | Species | Source | Method |
| 958029-37-3 | HDMA | | | | |
| | oral | Data lacking | | | |
| | dermal | Data lacking | | | |
| | inhalation | Data lacking | | | |

Irritation and corrosivity

 Harmful by inhalation, in contact with skin and if swallowed.
 Irritating to eyes, respiratory system and skin.

Sensitising effects

No data available

Carcinogenic/mutagenic/toxic effects for reproduction

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.

STOT-single exposure

Inhalation - May cause respiratory irritation.

STOT-repeated exposure

No data available

Aspiration hazard

No data available

Specific effects in experiment on an animal

No data available

Practical experience

No data available

Further information

Warning - substance not yet tested completely.

SECTION 12: Ecological information
12.1. Toxicity

No data available

| CAS No | Chemical name | | | | | |
|-------------|------------------|--------------|-----------|---------|--------|--------|
| | Aquatic toxicity | Dose | [h] [d] | Species | Source | Method |
| 958029-37-3 | HDMA | | | | | |
| | Aquatic toxicity | Data lacking | | | | |

12.2. Persistence and degradability

No data available

12.3. Bioaccumulative potential

No data available

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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.

12.7. Other adverse effects

Warning - substance not yet tested completely.

SECTION 13: Disposal considerations**13.1. Waste treatment methods****Disposal recommendations**

Dispose of waste according to applicable legislation.

Consult the appropriate local waste disposal expert about waste disposal.

Contaminated packaging

Handle contaminated packages in the same way as the substance itself.

SECTION 14: Transport information**Land transport (ADR/RID)****14.2. UN proper shipping name:** No dangerous good in sense of these transport regulations.**Inland waterways transport (ADN)****14.2. UN proper shipping name:** No dangerous good in sense of these transport regulations.**Marine transport (IMDG)****14.2. UN proper shipping name:** No dangerous good in sense of these transport regulations.**Air transport (ICAO-TI/IATA-DGR)****14.2. UN proper shipping name:** No dangerous good in sense of these transport regulations.**14.6. Special precautions for user**

No data available

14.7. Maritime transport in bulk according to IMO instruments

No data available

SECTION 15: Regulatory information**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****EU regulatory information****Additional information**

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH)

National regulatory information

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

15.2. Chemical safety assessment

For this substance a chemical safety assessment has not been carried out.

SECTION 16: Other information**Relevant H and EUH statements (number and full text)**

| | |
|----------------|---|
| H302 | Harmful if swallowed. |
| H302+H312+H332 | Harmful if swallowed, in contact with skin or if inhaled. |
| H312 | Harmful in contact with skin. |
| H315 | Causes skin irritation. |

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| | |
|------|-----------------------------------|
| H319 | Causes serious eye irritation. |
| H332 | Harmful if inhaled. |
| H335 | May cause respiratory irritation. |

Further Information

Warning - substance not yet tested completely.

The product is intended for research, analysis and scientific education.

The receiver of our product is singularly responsible for adhering to existing laws and regulations.

The information is based on the present level of our knowledge. It does not, however, give assurance of product properties and establishes no contract legal rights.

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.