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

1.1 Product identifier

Identification of the substance: 6-Azauracil
Article number: 5488
Registration number (REACH): This information is not available.
EC number: 207-318-0
CAS number: 461-89-2

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

Identified uses: laboratory chemical

1.3 Details of the supplier of the safety data sheet

Carl Roth GmbH + Co KG
Schoenperlenstr. 3-5
D-76185 Karlsruhe
Germany

Telephone: +49 (0) 721 - 56 06 0
Telefax: +49 (0) 721 - 56 06 149
E-mail: sicherheit@carlroth.de
Website: www.carlroth.de

Competent person responsible for the safety data sheet: Department Health, Safety and Environment
E-mail (competent person): sicherheit@carlroth.de

1.4 Emergency telephone number

Emergency information service: Poison Centre Munich: +49/(0)89 19240

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

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

<table>
<thead>
<tr>
<th>Section</th>
<th>Hazard class</th>
<th>Hazard class and category</th>
<th>Hazard statement</th>
</tr>
</thead>
<tbody>
<tr>
<td>3.8</td>
<td>specific target organ toxicity - single exposure</td>
<td>(STOT SE 2)</td>
<td>H371</td>
</tr>
</tbody>
</table>

Remarks
For full text of Hazard- and EU Hazard-statements: see SECTION 16.
2.2 Label elements

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

Signal word: Warning

Pictograms

Hazard statements

H371 May cause damage to organs.

Precautionary statements

Precautionary statements - prevention

P260 Do not breathe dust/fume/gas/mist/vapours/spray.
P264 Wash thoroughly after handling.
P270 Do not eat, drink or smoke when using this product.

Precautionary statements - response

P308+P311 IF exposed or concerned: Call a POISON CENTER/doctor.

Precautionary statements - storage

P405 Store locked up.

Precautionary statements - disposal

P501 Dispose of contents/container to industrial combustion plant.

Labelling of packages where the contents do not exceed 125 ml

Signal word: Warning

Symbol(s)

2.3 Other hazards

There is no additional information.
SECTION 3: Composition/information on ingredients

3.1 Substances

<table>
<thead>
<tr>
<th>Name of substance</th>
<th>6-Azauracil</th>
</tr>
</thead>
<tbody>
<tr>
<td>EC number</td>
<td>207-318-0</td>
</tr>
<tr>
<td>CAS number</td>
<td>461-89-2</td>
</tr>
<tr>
<td>Molecular formula</td>
<td>C₃H₃N₃O₂</td>
</tr>
<tr>
<td>Molar mass</td>
<td>113.1 g/mol</td>
</tr>
</tbody>
</table>

SECTION 4: First aid measures

4.1 Description of first aid measures

General notes
Take off contaminated clothing.

Following inhalation
Provide fresh air. In all cases of doubt, or when symptoms persist, seek medical advice.

Following skin contact
Rinse skin with water/shower. In all cases of doubt, or when symptoms persist, seek medical advice.

Following eye contact
Rinse cautiously with water for several minutes. In all cases of doubt, or when symptoms persist, seek medical advice.

Following ingestion
Rinse mouth. Call a doctor if you feel unwell.

4.2 Most important symptoms and effects, both acute and delayed
Symptoms and effects are not known to date

4.3 Indication of any immediate medical attention and special treatment needed
none

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media
Co-ordinate fire-fighting measures to the fire surroundings
water spray, foam, dry extinguishing powder, carbon dioxide (CO2)

Unsuitable extinguishing media
water jet
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5.2 Special hazards arising from the substance or mixture
Combustible.
Hazardous combustion products
In case of fire may be liberated: nitrogen oxides (NOx), carbon monoxide (CO), carbon dioxide (CO2)

5.3 Advice for firefighters
Fight fire with normal precautions from a reasonable distance. Wear self-contained breathing apparatus.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures
For non-emergency personnel
Wearing of suitable protective equipment (including personal protective equipment referred to under Section 8 of the safety data sheet) to prevent any contamination of skin, eyes and personal clothing. Do not breathe dust. Avoid contact with skin, eyes and clothes.

6.2 Environmental precautions
Keep away from drains, surface and ground water.

6.3 Methods and material for containment and cleaning up
Advices on how to contain a spill
Covering of drains.
Advices on how to clean up a spill
Take up mechanically. Control of dust.
Other information relating to spills and releases
Place in appropriate containers for disposal. Ventilate affected area.
Reference to other sections

SECTION 7: Handling and storage

7.1 Precautions for safe handling
Do not breathe dust. Provide adequate ventilation.
• Measures to prevent fire as well as aerosol and dust generation
Removal of dust deposits.
Advice on general occupational hygiene
Wash hands before breaks and after work. Keep away from food, drink and animal feedingstuffs.

7.2 Conditions for safe storage, including any incompatibilities
Store in a dry place.
Incompatible substances or mixtures
Observe hints for combined storage.
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Consideration of other advice

• Ventilation requirements
  Use local and general ventilation.

• Specific designs for storage rooms or vessels
  Recommended storage temperature: 15 - 25 °C.

7.3 Specific end use(s)
  No information available.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

National limit values

Occupational exposure limit values (Workplace Exposure Limits)

8.2 Exposure controls

Individual protection measures (personal protective equipment)

Eye/face protection
  Use safety goggle with side protection.

Skin protection

• hand protection
  Wear suitable gloves. Chemical protection gloves are suitable, which are tested according to EN 374. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

• type of material
  NBR (Nitrile rubber)

• material thickness
  >0,11 mm.

• breakthrough times of the glove material
  >480 minutes (permeation: level 6)

• other protection measures
  Take recovery periods for skin regeneration. Preventive skin protection (barrier creams/ointments) is recommended.

Respiratory protection
  Respiratory protection necessary at: Dust formation. Particulate filter device (EN 143). P1 (filters at least 80 % of airborne particles, colour code: White). Observe the wear time limits according GefStoffV in combination with the rules for using respiratory protection apparatus (BGR 190).
### 9.1 Information on basic physical and chemical properties

#### Appearance
- **Physical state**: solid (powder, crystalline)
- **Colour**: whitish
- **Odour**: this information is not available
- **Odour threshold**: No data available

#### Other physical and chemical parameters
- **pH (value)**: This information is not available.
- **Melting point/freezing point**: 277 °C
- **Initial boiling point and boiling range**: This information is not available.
- **Flash point**: not applicable
- **Evaporation rate**: no data available
- **Flammability (solid, gas)**: Non-flammable

#### Explosive limits
- **lower explosion limit (LEL)**: this information is not available
- **upper explosion limit (UEL)**: this information is not available

#### Explosion limits of dust clouds
- these information are not available

#### Vapour pressure
- This information is not available.

#### Density
- This information is not available.

#### Vapour density
- This information is not available.

#### Relative density
- Information on this property is not available.

#### Solubility(ies)
- **Water solubility**: no data available

#### Partition coefficient
- **n-octanol/water (log KOW)**: This information is not available.

#### Auto-ignition temperature
- Information on this property is not available.

#### Decomposition temperature
- no data available

#### Viscosity
- not relevant (solid matter)

#### Explosive properties
- none

#### Oxidising properties
- none
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9.2 Other information
There is no additional information.

SECTION 10: Stability and reactivity

10.1 Reactivity
the product in the delivered form is not dust explosion capable; the enrichment of fine dust however leads to the danger of dust explosion.

10.2 Chemical stability
The material is stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.

10.3 Possibility of hazardous reactions
Violent reaction with: Strong oxidiser

10.4 Conditions to avoid
There are no specific conditions known which have to be avoided.

10.5 Incompatible materials
There is no additional information.

10.6 Hazardous decomposition products
Hazardous combustion products: see section 5.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity
Shall not be classified as acutely toxic.

Skin corrosion/irritation
Shall not be classified as corrosive/irritant to skin.

Serious eye damage/eye irritation
Shall not be classified as seriously damaging to the eye or eye irritant.

Respiratory or skin sensitisation
Shall not be classified as a respiratory or skin sensitiser.

Summary of evaluation of the CMR properties
Shall not be classified as germ cell mutagenic, carcinogenic nor as a reproductive toxicant

• Specific target organ toxicity - single exposure
May cause damage to organs.

• Specific target organ toxicity - repeated exposure
Shall not be classified as a specific target organ toxicant (repeated exposure).

Aspiration hazard
Shall not be classified as presenting an aspiration hazard.

Symptoms related to the physical, chemical and toxicological characteristics

• If swallowed
data are not available
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- **If in eyes**
  data are not available
- **If inhaled**
  data are not available
- **If on skin**
  data are not available

**Other information**
None

### SECTION 12: Ecological information

12.1 **Toxicity**
acc. to 1272/2008/EC: Shall not be classified as hazardous to the aquatic environment.

12.2 **Process of degradability**
- Theoretical Oxygen Demand with nitrification: 0.8961 mg/mg
- Theoretical Oxygen Demand: 0.1415 mg/mg
- Theoretical Carbon Dioxide: 1.168 mg/mg

12.3 **Bioaccumulative potential**
Data are not available.

12.4 **Mobility in soil**
Data are not available.

12.5 **Results of PBT and vPvB assessment**
Data are not available.

12.6 **Other adverse effects**
Slightly hazardous to water.

### SECTION 13: Disposal considerations

13.1 **Waste treatment methods**
This material and its container must be disposed of as hazardous waste. Dispose of contents/container in accordance with local/regional/national/international regulations.

**Sewage disposal-relevant information**
Do not empty into drains.

13.2 **Relevant provisions relating to waste**
The allocation of waste identity numbers/waste descriptions must be carried out according to the EEC, specific to the industry and process.

13.3 **Remarks**
Waste shall be separated into the categories that can be handled separately by the local or national waste management facilities. Please consider the relevant national or regional provisions.
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**SECTION 14: Transport information**

14.1 UN number: (not subject to transport regulations)

14.2 UN proper shipping name: not relevant

14.3 Transport hazard class(es):
   - Class: not relevant

14.4 Packing group: not relevant

14.5 Environmental hazards: *none* (non-environmentally hazardous acc. to the dangerous goods regulations)

14.6 Special precautions for user:
   - There is no additional information.

14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code:
   - The cargo is not intended to be carried in bulk.

14.8 Information for each of the UN Model Regulations:
   - Transport of dangerous goods by road, rail and inland waterway (ADR/RID/ADN):
     - Not subject to ADR, RID and ADN.
   - International Maritime Dangerous Goods Code (IMDG):
     - Not subject to IMDG.

**SECTION 15: Regulatory information**

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture:
   - Relevant provisions of the European Union (EU):
     - Regulation 649/2012/EU concerning the export and import of hazardous chemicals (PIC):
       - Not listed.
     - Regulation 1005/2009/EC on substances that deplete the ozone layer (ODS):
       - Not listed.
     - Regulation 850/2004/EC on persistent organic pollutants (POP):
       - Not listed.
     - Restrictions according to REACH, Annex XVII:
       - not listed
     - List of substances subject to authorisation (REACH, Annex XIV):
       - not listed
   - Directive 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment (RoHS) - Annex II:
     - not listed
   - Regulation 166/2006/EC concerning the establishment of a European Pollutant Release and Transfer Register (PRTR):
     - not listed
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**Directive 2000/60/EC establishing a framework for Community action in the field of water policy (WFD)**

not listed

**National inventories**

Substance is listed in the following national inventories:

- EINECS/ELINCS/NLP (Europe)

**15.2 Chemical Safety Assessment**

No Chemical Safety Assessment has been carried out for this substance.

### Abbreviations and acronyms

<table>
<thead>
<tr>
<th>Abbr.</th>
<th>Descriptions of used abbreviations</th>
</tr>
</thead>
<tbody>
<tr>
<td>ADN</td>
<td>Accord européen relatif au transport international des marchandises dangereuses par voies de navigation intérieures (European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways)</td>
</tr>
<tr>
<td>ADR</td>
<td>Accord européen relatif au transport international des marchandises dangereuses par route (European Agreement concerning the International Carriage of Dangerous Goods by Road)</td>
</tr>
<tr>
<td>CAS</td>
<td>Chemical Abstracts Service (service that maintains the most comprehensive list of chemical substances)</td>
</tr>
<tr>
<td>CLP</td>
<td>Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures</td>
</tr>
<tr>
<td>CMR</td>
<td>Carcinogenic, Mutagenic or toxic for Reproduction</td>
</tr>
<tr>
<td>EINECS</td>
<td>European Inventory of Existing Commercial Chemical Substances</td>
</tr>
<tr>
<td>ELINCS</td>
<td>European List of Notified Chemical Substances</td>
</tr>
<tr>
<td>GHS</td>
<td>&quot;Globally Harmonized System of Classification and Labelling of Chemicals&quot; developed by the United Nations</td>
</tr>
<tr>
<td>IMDG</td>
<td>International Maritime Dangerous Goods Code</td>
</tr>
<tr>
<td>MARPOL</td>
<td>International Convention for the Prevention of Pollution from Ships (abbr. of “Marine Pollutant)</td>
</tr>
<tr>
<td>NLP</td>
<td>No-Longer Polymer</td>
</tr>
<tr>
<td>PBT</td>
<td>Persistent, Bioaccumulative and Toxic</td>
</tr>
<tr>
<td>REACH</td>
<td>Registration, Evaluation, Authorisation and Restriction of Chemicals</td>
</tr>
<tr>
<td>RID</td>
<td>Règlement concernant le transport International ferroviaire des marchandises Dangereuses (Regulations concerning the International carriage of Dangerous goods by Rail)</td>
</tr>
<tr>
<td>vPvB</td>
<td>very Persistent and very Bioaccumulative</td>
</tr>
</tbody>
</table>

**Key literature references and sources for data**

- Regulation (EC) No. 1272/2008 (CLP, EU GHS)

**List of relevant phrases (code and full text as stated in chapter 2 and 3)**

<table>
<thead>
<tr>
<th>Code</th>
<th>Text</th>
</tr>
</thead>
<tbody>
<tr>
<td>H371</td>
<td>may cause damage to organs</td>
</tr>
</tbody>
</table>
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.