

1: Identification of substance / mixture

1. Product Identifier

Substance

Product Name **5-Bromo-1,3,4-thiadiazol-2-ylamine**
Product Code 046170
CAS Number 37566-39-5
Other Names 5-Bromo-1,3,4-thiadiazol-2-amine
2-Amino-5-bromo-1,3,4-thiadiazole
IUPAC
MFCN Number MFCD00464325
EC/EINECS 625-517-4
REACH Number

Index-No

2. Relevant identified uses of the substance or mixture and uses advised against

Research and Development

3. Details of the supplier of the safety data sheet

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Hadfield
Derbyshire
SK13 1QH
UK

Telephone: +44(0)1457 860111
Fax: +44(0)1457 892799
Email: sds@fluorochem.co.uk



4. Emergency telephone number

+44(0)7855 268577 -

2. Hazards Identification

1. Classification of the substance or mixture

| | | |
|------|--------------|--|
| H302 | Acute Tox. 4 | |
| H312 | Acute Tox. 4 | |
| H319 | Eye Irrit. 2 | |
| H332 | Acute Tox. 4 | |

2. Label elements

Signal Word **Warning**



Hazard Statements

| | |
|------|--------------------------------|
| H302 | Harmful if swallowed. |
| H312 | Harmful in contact with skin. |
| H319 | Causes serious eye irritation. |
| H332 | Harmful if inhaled. |

Precautionary Phrases

| | |
|-------------|--|
| P261 | Avoid breathing dust/fume/gas/mist/vapours/spray. |
| P280 | Wear protective gloves/protective clothing/eye protection/face protection. |
| P301 + P312 | IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell. |
| P302 + P352 | IF ON SKIN: Wash with plenty of soap and water. |
| P304 + P340 | IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. |
| P501 | Dispose of contents/container to local regulations |

3. Other Hazards

Additional precautionary phrases are located throughout the safety data sheet

3. Composition / Information on Ingredients

1. Substances

| Product Name | Hazards | Concentration |
|--|---|---------------|
| 5-Bromo-1,3,4-thiadiazol-2-ylamine | | |
| CAS Number: 37566-39-5 EC/EINECS: 625-517-4 | H302, H312, H319, H332 Acute Tox. 4, Eye Irrit. 2 | <=100% |

4. First Aid Measures

1. Description of first aid measures

| | |
|---------------------|---|
| <i>Skin Contact</i> | P302 + P352: IF ON SKIN: Wash with plenty of soap and water. |
| <i>Eye Contact</i> | Rinse opened eye for several minutes under running water. |
| <i>Ingestion</i> | P301 + P312: IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell. |
| <i>Inhalation</i> | P304 + P340: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. |

2. Most important symptoms and effects

There may be irritation and redness.

3. Indication of any immediate medical attention

No additional measures required

5. Firefighting measures

1. Extinguishing Media

| | |
|-------------------|---|
| <i>Suitable</i> | Carbon dioxide. Dry chemical powder. |
| <i>Unsuitable</i> | no data |

2. Special Hazards arising from the substance or mixture

In combustion toxic fumes may form.

3. Advice for Fire Fighters

Wear self-contained breathing apparatus.
Wear protective clothing to prevent contact with skin and eyes.

6. Accidental Release Measures

1. Personal Precautions

Do not attempt to take action without suitable protective clothing – see section 8 of SDS.
Remove all incompatible materials as outlined in section 10 of SDS.

2. Environmental Precautions

Do not discharge into drains or rivers.
Contain the spillage using bunding.

3. Methods & Materials

Mix with sand or vermiculite.
Transfer to a closable, labelled salvage container for disposal by an appropriate method.

4. Preventing the occurrence of secondary hazards.

No Special Measures Required

7. Handling and Storage

1. Personal Precautions

Safe Handling Ensure there is sufficient ventilation of the area.
P264: Wash hands thoroughly after handling.
P270: Do not eat, drink or smoke when using this product.

Protection against explosions and fires P363: Wash contaminated clothing before reuse.

2. Conditions for safe storage, including any incompatibilities

Managing Storage Risks Store in cool, well ventilated area.
Keep container tightly closed.

Storage Controls No special requirements

Maintaining Integrity Keep in tightly closed container in cool area away from direct sunlight or heat sources.

Other advice no further information available

3. Specific End Uses

The end use(s) have not been fully determined. The substance is supplied for Research and Development purposes by professionals only.

8. Exposure Controls/Personal Protection

1. Control Parameters

No Data Available

2. Exposure Controls

General protective and hygiene measures P280: Wear protective gloves/protective clothing/eye protection/face protection.
Wash hands during breaks and at the end of handling the material
Immediately remove any contaminated clothing

Engineering measures P271: Use only outdoors or in a well-ventilated area.

Eye / Face Protection Safety Glasses with side-shields.

Hand protection Protective gloves.

Respiratory protection P261: Avoid breathing dust/fume/gas/mist/vapours/spray.
Use breathing protection with high concentrations

Skin protection Handle with gloves.
Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practice.
Wash and dry hands.
Protective clothing.

Other personal protection advice no data

9. Physical and Chemical Properties

1. Physical and Chemical Properties

| | |
|---|-------------------|
| Appearance | Solid |
| Odour | No Data Available |
| Odour threshold | No Data Available |
| PH | No Data Available |
| Melting point / Freezing point | 174-185°C |
| Initial boiling point and boiling range | 314.1°C |
| Flash point | No Data Available |
| Evaporation rate | No Data Available |

| | |
|--|-------------------|
| Flammability(solid,gas) | No Data Available |
| Upper/lower flammability or explosive limits | No Data Available |
| Vapour pressure | No Data Available |
| Vapour density | No Data Available |
| Relative density | 2.147 |
| Solubility(ies): | No Data Available |
| Partition coefficient: n-octanol/water | No Data Available |
| Auto-ignition temperature | No Data Available |
| Decomposition temperature | No Data Available |
| Viscosity | No Data Available |
| Explosive properties | No Data Available |
| Oxidising properties | No Data Available |

2. Other Information

No additional information available

10. Stability and Reactivity

1. Reactivity

no unusual reactivity

2. Stability

Stable under normal conditions.

3. Possibility of Hazardous Reactions

no hazardous reactions known

4. Conditions to Avoid

no specific conditions to avoid

5. Incompatible Materials

Oxidising agents.

6. Hazardous Decomposition Products

In combustion emits toxic fumes of carbon dioxide / carbon monoxide.

In combustion emits toxic fumes of sulphur oxides.

In combustion emits toxic fumes of nitrogen oxides.

In combustion emits toxic fumes of hydrogen bromide.

11. Toxicology information

1. Information

| | |
|--|--|
| <i>Acute Toxicity</i> | no data |
| <i>Skin corrosion/irritation</i> | irritant for skin and mucous membranes |
| <i>Serious eye Damage/irritation</i> | irritant effect |
| <i>Respiratory or skin sensitisation</i> | may cause respiratory irritation may cause skin sensitization |
| <i>Germ Cell mutagenicity</i> | not known |
| <i>Carcinogenicity</i> | not known |
| <i>Reproductive toxicity</i> | not known |
| <i>STOT-single exposure</i> | not known |
| <i>STOT-repeated exposure</i> | not known |

Aspiration hazard not known

2. Additional

To the best of our knowledge the acute and chronic toxicity of this substance is not fully known.
No classification data on carcinogenic properties of this material is available from the EPA, IARC,NTP,OSHA or ACGIH

12. Ecological Information

1. Toxicity

not known

2. Persistence and degradability

not known

3. Bio-Accumulative Potential

not known

4. Mobility and Soil

not known

5. Results of PBT & vPvB assessment

not known

6. Other adverse effects

Do not allow product to reach ground water, water bodies or sewage system, even in small quantities.

13. Disposal Considerations

1. Waste Treatment Methods

Disposal Operations

Disposal of Packaging Disposal must be made according to official regulations.

14. Transport Information

Air (ICAO)

Not classified as hazardous for transport

Road (ADR)

Not classified as hazardous for transport

Sea (IMDG)

Not classified as hazardous for transport

15. Safety, health, environmental and national regulations

1. Safety, health, environmental and national regulations:

product is not subject to any additional regulations or provisions

2. Safety Assessment

No Chemical Safety Assessment

16. Other Information

1. Other Information:

ADR: Accord Europeen sur le transport des marchandises Dangereuses par Route(European Agreement concerning the International Carriage of Dangerous Goods by road)

RID:Reglement International concernant le transport des marchandises dangereuses par chemin de fer (Regulations concerning the International transport of Dangerous Goods by Rail)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

IATA-DGR: Dangerous Goods Regulations by the International Air Transport Association

ICAO:International Civil Aviation Organization

ICAO-TI: Technical Instructions by the ICAO

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

CAS:Chemical Abstracts Service

3. Disclaimer

The product listed is for research and development purposes only and not for human or animal use. As such, in most cases, the toxicological, ecological and physicochemical properties have not been fully determined and the product should be treated with respect and always handled under suitable conditions by appropriately qualified personnel. The responsible party shall use this datasheet only in conjunction with other sources of information gathered by them, and should make an independent judgement of suitability, to ensure proper use and protect the health and safety of employees. This information is furnished without warranty and any use of the product not in conformance with this material safety data sheet, or in combination with any other product or process, is the responsibility of the user.