

SAFETY DATA SHEET

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

1.1 Product identifiers

Product name : tert-butyl 1,6-diazaspiro[3.3]heptane-6-carboxylate hemioxalate

CAS NO : 1431868-60-8

Product Number : AC501597

Brand : AbovChem

REACH No. : A registration number is not available for this substance as the substance or its uses are exempted from registration, the annual tonnage does not require a registration, or the registration is envisaged for a later registration deadline.

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

Identified uses : Laboratory chemicals, Manufacture of substances

1.3 Details of the supplier of the safety data sheet

Company : AbovChem LLC
11315 Rancho Bernardo Road, Suite 131
San Diego, CA 92127-1463

Telephone : +1-858-261-9072

1.4 Emergency telephone number

+1-858-261-9072

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

| | |
|--|------------|
| Acute Oral Toxicity | Category 4 |
| Skin Corrosion/Irritation | Category 2 |
| Serious Eye Damage/Eye Irritation | Category 2 |
| Specific target organ toxicity - (single exposure) | Category 3 |

2.2 GHS label elements, including precautionary statements

Pictogram(s)



Signal word

Warning

Hazard

H302+ H312

Harmful if swallowed or in contact with skin Respiratory system

H315

Causes skin irritation

H319

Causes serious eye irritation

H335

May cause respiratory irritation

Precautionary statement(s)

Prevention

P261

Avoid breathing dust/fume/gas/mist/vapors/spray

P264

Wash face, hands and any exposed skin thoroughly after handling

| | |
|--------------------|---|
| P270 | Do not eat, drink or smoke when using this product |
| P271 | Use only outdoors or in a well-ventilated area |
| P280 | Wear protective gloves/ protective clothing/ eye protection/ face protection Response |
| P302 + P352 | IF ON SKIN: Wash with plenty of soap and water |
| P304 + P340 | IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing |
| P305 + P351 + P338 | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing |
| P312 | Call a POISON CENTER or doctor/ physician if you feel unwell |
| P330 | Rinse mouth |
| P362 | Take off contaminated clothing and wash before reuse Storage |
| P403 + P233 | Store in a well-ventilated place. Keep container tightly closed Disposal |
| P501 | Dispose of contents/ container to an approved waste disposal plant |

Physical and Chemical Hazards

None identified.

Health Hazards

Harmful if swallowed. Causes skin irritation. Causes serious eye irritation. May cause respiratory irritation.

Environmental hazards

Contains no substances known to be hazardous to the environment or not degradable in wastewater treatment plants.

2.3 Other hazards

none

SECTION 3: Composition/information on ingredients

3.1 Substances

| Chemical Name | Common Names | CAS | EC number |
|---|---|--------------|-----------|
| tert-butyl 1,6-diazaspiro[3.3]heptane-6-carboxylate hemioxalate | tert-butyl 1,6-diazaspiro[3.3]heptane-6-carboxylate hemioxalate | 1431868-60-8 | - |

SECTION 4: First aid measures

4.1 Description of necessary first-aid measures

General advice

Medical attention is required. Consult a doctor. Show this safety data sheet (SDS) to the doctor in attendance.

If inhaled

Move the victim into fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration and consult a doctor immediately. Do not use mouth to mouth resuscitation if the victim ingested or inhaled the chemical.

Following skin contact

Take off contaminated clothing immediately. Wash off with soap and plenty of water. Consult a doctor.

Following eye contact

Rinse with pure water for at least 15 minutes. Consult a doctor.

Following ingestion

Rinse mouth with water. Do not induce vomiting. Never give anything by mouth to an unconscious person. Call a doctor or Poison Control Center immediately.

4.2 Most important symptoms/effects, acute and delayed

No data available

4.3 Indication of immediate medical attention and special treatment needed, if necessary

No data available

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

Use dry chemical, carbon dioxide or alcohol-resistant foam.

5.2 Special hazards arising from the substance or mixture

No data available

5.3 Special protective actions for fire-fighters

Wear self-contained breathing apparatus for firefighting if necessary.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Avoid dust formation. Avoid breathing mist, gas or vapours. Avoid contacting with skin and eye. Use personal protective equipment. Wear chemical impermeable gloves. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak.

6.2 Environmental precautions

Prevent further spillage or leakage if it is safe to do so. Do not let the chemical enter drains. Discharge into the environment must be avoided.

6.3 Methods and materials for containment and cleaning up

Collect and arrange disposal. Keep the chemical in suitable and closed containers for disposal. Remove all sources of ignition. Use spark-proof tools and explosion-proof equipment. Adhered or collected material should be promptly disposed of, in accordance with appropriate laws and regulations.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Handling in a well-ventilated place. Wear suitable protective clothing. Avoid contact with skin and eyes.

Avoid formation of dust and aerosols. Use non-sparking tools. Prevent fire caused by electrostatic

discharge steam.

7.2 Conditions for safe storage, including any incompatibilities

Store the container tightly closed in a dry, cool and well-ventilated place. Store apart from foodstuff containers or incompatible materials.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational Exposure limit values

no data available

8.2 Appropriate engineering controls

Ensure adequate ventilation. Handle in accordance with good industrial hygiene and safety practice. Set up emergency exits and the risk-elimination area.

8.3 Individual protection measures, such as personal protective equipment (PPE)

Eye/face protection

Wear tightly fitting safety goggles with side-shields conforming to EN166(EU) or NIOSH (US). **Skin protection**

Wear fire/flame resistant and impervious clothing. Handle with gloves. Gloves must be inspected prior to use.

Wash and dry hands. The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

Respiratory protection

If the exposure limits are exceeded, irritation or other symptoms are experienced, use a full-face respirator.

Thermal hazards

No data available

SECTION 9: Physical and chemical properties

| | |
|--|-------------------|
| Physical state | |
| Appearance | — — |
| Odor | no data available |
| Melting point/ freezing point | no data available |
| Boiling point or initial boiling point and boiling range | no data available |
| Flammability | no data available |
| Lower and upper explosion limit/ flammability limit | no data available |
| Flash point | no data available |
| Auto-ignition temperature | no data available |
| Decomposition temperature | no data available |
| pH | no data available |
| Kinematic viscosity | no data available |
| Solubility | no data available |
| Partition coefficient n-octanol/water | no data available |
| Density and/or relative density | no data available |
| Vapor pressure | no data available |
| Relative vapor density | no data available |
| Particle characteristics | no data available |

SECTION 10: Stability and reactivity

10.1 Reactivity

No data available

10.2 Chemical stability

No data available

10.3 Possibility of hazardous reactions

No data available

10.4 Conditions to avoid

No data available

10.5 Incompatible materials

No data available

10.6 Hazardous decomposition products

No data available

SECTION 11: Toxicological information

| | |
|-----------------------------------|-------------------|
| Acute toxicity | |
| Oral: | no data available |
| Inhalation: | no data available |
| Dermal: | no data available |
| Skin corrosion/irritation | no data available |
| Serious eye damage/irritation | no data available |
| Respiratory or skin sensitization | no data available |
| Germ cell mutagenicity | no data available |
| Carcinogenicity | no data available |
| Reproductive toxicity | no data available |
| STOT-single exposure | no data available |
| STOT-repeated exposure | no data available |
| Aspiration hazard | no data available |

SECTION 12: Ecological information**12.1 Toxicity**

Toxicity to fish: no data available

Toxicity to daphnia and other aquatic invertebrates: no data available

Toxicity to algae: no data available

Toxicity to microorganisms: no data available

12.2 Persistence and degradability

No data available

12.3 Bioaccumulative potential

No data available

12.4 Mobility in soil

No data available

12.5 Other adverse effects

No data available

SECTION 13: Disposal considerations

13.1 Disposal methods

Product

The material can be disposed of by removal to a licensed chemical destruction plant or by controlled incineration with flue gas scrubbing. Do not contaminate water, foodstuffs, feed or seed by storage or disposal. Do not discharge to sewer systems.

Contaminated packaging

Containers can be triply rinsed (or equivalent) and offered for recycling or reconditioning. Alternatively, the packaging can be punctured to make it unusable for other purposes and then be disposed of in a sanitary landfill. Controlled incineration with flue gas scrubbing is possible for combustible packaging materials.

SECTION 14: Transport information

14.1 UN number

ADR/RID: - IMDG: - IATA: -

14.2 UN proper shipping name

ADR/RID: Not dangerous goods

IMDG: Not dangerous goods

IATA: Not dangerous goods

14.3 Transport hazard class(es)

ADR/RID: - IMDG: - IATA: -

14.4 Packaging group

ADR/RID: - IMDG: - IATA: -

14.5 Environmental hazards

ADR/RID: no IMDG Marine pollutant: no IATA: no

14.6 Special precautions for user

No data available

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

No data available

SECTION 15: Regulatory information

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

| Chemical Name | Common Names | CAS Number | EC Number |
|--|---|--------------|-----------|
| tert-butyl 1,6-diazaspiro[3.3]heptane-6-carboxylate hemioxalate | tert-butyl 1,6-diazaspiro[3.3]heptane-6-carboxylate hemioxalate | 1431868-60-8 | - |
| European Inventory of Existing Commercial Chemical Substances | | Not Listed. | |
| EC Inventory | | Not Listed. | |
| United States Toxic Substances Control Act (TSCA) Inventory | | Not Listed. | |
| China Catalog of Hazardous chemicals 2015 | | Not Listed. | |
| New Zealand Inventory of Chemicals (NZIoC) | | Not Listed. | |
| Philippines Inventory of Chemicals and Chemical Substances (PICCS) | | Not Listed. | |
| Vietnam National Chemical Inventory | | Not Listed. | |

| | |
|--|-------------|
| Chinese Chemical Inventory of Existing Chemical Substances (China) | Not Listed. |
| Korea Existing Chemicals List (KECL) | Not Listed. |

SECTION 16: Other information

Abbreviations and acronyms

- CAS: Chemical Abstracts Service
- ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road
- RID: Regulation concerning the International Carriage of Dangerous Goods by Rail
- IMDG: International Maritime Dangerous Goods
- IATA: International Air Transportation Association
- TWA: Time Weighted Average
- STEL: Short term exposure limit
- LC50: Lethal Concentration 50%
- LD50: Lethal Dose 50%
- EC50: Effective Concentration 50%

References

- IPCS - The International Chemical Safety Cards (ICSC), website:
<http://www.ilo.org/dyn/icsc/showcard.home>
- HSDB - Hazardous Substances Data Bank, website:
<https://toxnet.nlm.nih.gov/newtoxnet/hsdb.htm>
- IARC - International Agency for Research on Cancer, website: <http://www.iarc.fr/>
- eChemPortal - The Global Portal to Information on Chemical Substances by OECD, website:
http://www.echemportal.org/echemportal/index?pageID=0&request_locale=en
- CAMEO Chemicals, website: <http://cameochemicals.noaa.gov/search/simple>
- ChemIDplus, website: <http://chem.sis.nlm.nih.gov/chemidplus/chemidlite.jsp>
- ERG - Emergency Response Guidebook by U.S. Department of Transportation, website: <http://www.phmsa.dot.gov/hazmat/library/erg>
- Germany GESTIS-database on hazard substance, website:
<http://www.dguv.de/ifa/gestis/gestis-stoffdatenbank/index-2.jsp>
- ECHA - European Chemicals Agency, website: <https://echa.euro.eu/>