

Safety Data Sheet

acc. to OSHA HCS

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1 Identification · Product identifier · Trade name: Acetazolamide · Synonym N-[5-(aminosulfonyl)-1,3,4-thiadiazol-2-yl]-acetamide L-579,486 NSC 145177 · CAS Number: 59-66-5 Other means of identification · Article number: 21218 · EC number: 200-440-5 · Application of the substance / the mixture This product is for research use - Not for human or veterinary diagnostic or therapeutic use. · Details of the supplier of the safety data sheet Manufacturer/Supplier: Cavman Chemical Co. 1180 E. Ellsworth Rd. Ann Arbor, MI 48108 USA · Information department: Product safety department • Emergency telephone number: During normal opening times: +1 (734) 971-3335 US/CANADA: 800-424-9300 Outside US/CANADA: 703-741-5970 2 Hazard(s) identification · Classification of the substance or mixture GHS08 Health hazard Reproductive toxicity 2 H361 Suspected of damaging fertility or the unborn child. GHS07 Skin irritation 2 H315 Causes skin irritation. Eye irritation 2A H319 Causes serious eye irritation. (Contd. on page 2) US

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Label elements	
GHS label elements	
The substance is classified and labeled according to the Globally Harmonized System (GHS). Hazard pictograms	
GHS07 GHS08	
Signal word Warning	
Hazard statements	
H315 Causes skin irritation. H319 Causes serious eye irritation.	
H361 Suspected of damaging fertility or the unborn child.	
Precautionary statements	
P201 Obtain special instructions before use.	
P202 Do not handle until all safety precautions have been read and understood.	
P264Wash thoroughly after handling.P280Wear protective gloves/protective clothing/eye protection/face protection/hearing	
protection.	
P302+P352 If on skin: Wash with plenty of water.	_
P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if	
P308+P313 present and easy to do. Continue rinsing. IF exposed or concerned: Get medical advice/attention.	
P321 Specific treatment (see on this label).	
P362+P364 Take off contaminated clothing and wash it before reuse.	
P332+P313 If skin irritation occurs: Get medical advice/attention.	
P337+P313If eye irritation persists: Get medical advice/attention.P405Store locked up.	
P501 Dispose of contents/container in accordance with local/regional/national/international	
regulations.	
Information pertaining to particular dangers for man and environment:	
Classification system:	
NFPA ratings (scale 0 - 4)	
Health = 2	
$\frac{2}{2} \int Fire = 0$	
Reactivity = 0	
HMIS-ratings (scale 0 - 4)	
HEALTH 2 Health = 2	
FIRE 0 Fire = 0	
REACTIVITY 0 Reactivity = 0	
Other hazards	
Results of PBT and vPvB assessment	
PBT: Not applicable.	
vPvB: Not applicable.	
Classification according to (d)(1)(ii) of § 1910.1200	:
The SDS issuer does not object to the classifications provided by importers or manufacturers of precursor products.	
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· Hazards not otherwise classified

There are no adverse physical or health effects known that are not covered by the hazard classes of the Hazard Communications Standard.

3 Composition/information on ingredients

- · Chemical characterization: Substances
- · CAS No. Description
- 59-66-5 Acetazolamide
- · Identification number(s)
- EC number: 200-440-5

4 First-aid measures

- · Description of first aid measures
- After inhalation: In case of unconsciousness place patient stably in side position for transportation.
- After skin contact: Immediately wash with water and soap and rinse thoroughly.
- After eye contact:

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

- After swallowing: If symptoms persist consult doctor.
- **Most important symptoms and effects, both acute and delayed** No further relevant information available.
- **Indication of any immediate medical attention and special treatment needed** No further relevant information available.

5 Fire-fighting measures

- · Extinguishing media
- **Suitable extinguishing agents:** Use fire fighting measures that suit the environment. A solid water stream may be inefficient.
- Special hazards arising from the substance or mixture No further relevant information available.
- Advice for firefighters
- · Protective equipment: No special measures required.

6 Accidental release measures

- · Personal precautions, protective equipment and emergency procedures Not required.
- · Environmental precautions: Do not allow to enter sewers/ surface or ground water.
- Methods and material for containment and cleaning up:
- Dispose contaminated material as waste according to section 13.
- Protective Action Criteria for Chemicals
- PAC-1: Substance is not listed.
- **PAC-2:** Substance is not listed.
- PAC-3: Substance is not listed.
- Reference to other sections
 See Section 7 for information on safe handling.
 See Section 8 for information on personal protection equipment.

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See Section 13 for disposal information.

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7 Handling and storage

Precautions for safe handling

No special precautions are necessary if used correctly.

Avoid breathing dust/fume/gas/mist/vapours/spray.

Avoid prolonged or repeated exposure.

Keep away from sources of ignition.

Take precautionary measures against static discharge.re.

- · Information about protection against explosions and fires: No special measures required.
- · Conditions for safe storage, including any incompatibilities
- Storage: Store in accordance with information listed on the product insert.
- Requirements to be met by storerooms and receptacles: No special requirements.
- Information about storage in one common storage facility: Not required.
- Further information about storage conditions: Keep receptacle tightly sealed.
- · Specific end use(s) No further relevant information available.

8 Exposure controls/personal protection

- · Control parameters
- · Components with limit values that require monitoring at the workplace: Not required.
- Additional information: The lists that were valid during the creation were used as basis.
- Exposure controls
- Appropriate engineering controls No further data; see section 7.
- Personal protective equipment:
- · General protective and hygienic measures:

Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing. Wash hands before breaks and at the end of work.

- Avoid contact with the eyes and skin.
- Breathing equipment: Not required.
- · Protection of hands:



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

• Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

· Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

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· Eye protection:



Tightly sealed goggles

9 Physical and chemical properties

Information on basic physical and chemica	al properties
General Information	
 Physical state 	Solid
· Color:	Not determined.
· Odor:	Characteristic
· Structural Formula	C4H6N4O3S2
 Molecular Weight 	222.3 g/mol
· Storage Buffer	-
· Odor threshold:	Not determined.
· Formulation	
 Melting point/Melting range: 	260.5 °C (500.9 °F)
· Boiling point/Boiling range:	Undetermined.
· Flammability:	Product is not flammable.
Explosion limits:	
· Lower:	Not determined.
· Upper:	Not determined.
Flash point:	Not applicable.
· Decomposition temperature:	Not determined.
· pH-value:	Not applicable.
· Viscosity:	
· Kinematic:	Not applicable.
	DMF: 15 mg/ml; DMSO: 15 mg/ml; DMSO:PBS(pH
SOLUBILITI	7.2) (1:3): 0.25 mg/ml
· Dynamic:	Not applicable.
· Solubility in / Miscibility with	Not applicable.
· Water:	Not determined.
Partition coefficient (n-octanol/water):	Not determined.
Vapor pressure:	Not applicable.
Vapor pressure:	
· Density:	Not determined.
Relative density	Not determined.
· Vapor density	Not applicable.
 Particle characteristics 	Not determined.
· Other information	
Appearance:	
· Form:	Solid
Important information on protection of hea	
and environment, and on safety.	
· Ignition temperature:	Not determined.
· Danger of explosion:	Product does not present an explosion hazard.
Danger of explosion.	
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[·] Change in condition

• Evaporation rate

Not applicable.

10 Stability and reactivity

· Reactivity No further relevant information available.

· Chemical stability

• **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.

- Possibility of hazardous reactions No dangerous reactions known.
- · Conditions to avoid No further relevant information available.
- · Incompatible materials: strong oxidizing agents
- Hazardous decomposition products:

carbon dioxide, carbon monoixde, nitrogen oxides, sulfur oxides

11 Toxicological information

- · RTECS Number AC8225000
- Information on toxicological effects
- · Acute toxicity:

· LD/LC50 values that are relevant for classification:

Oral	TDLO	54 ml/kg/5D intermittent (man)
	LD50	4,300 mg/kg (mouse)

Intraperitoneal LD50 2,750 mg/kg (rat)

Subcutaneous LD50 >3 g/kg (mouse)

Primary irritant effect:

- on the skin: Irritant to skin and mucous membranes.
- · on the eye: Irritating effect.
- · Sensitization: No sensitizing effects known.
- Additional toxicological information:
- · Interactive effects No interactive effects between components are known.
- · Carcinogenic categories
- · IARC (International Agency for Research on Cancer) Substance is not listed.
- NTP (National Toxicology Program) Substance is not listed.
- · OSHA-Ca (Occupational Safety & Health Administration) Substance is not listed.
- Alternative sources for toxicological information

No non-standard sources for toxicological information where used.

12 Ecological information

- · Toxicity
- · Aquatic toxicity: No further relevant information available.
- Persistence and degradability No further relevant information available.
- · **Bioaccumulative potential** No further relevant information available.
- Mobility in soil No further relevant information available.
- Results of PBT and vPvB assessment
- **PBT:** Not applicable.
- · vPvB: Not applicable.

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· Other adverse effects

· Additional ecological information:

· General notes:

Water hazard class 1 (Self-assessment): slightly hazardous for water

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

13 Disposal considerations

· Waste treatment methods

· Recommendation:

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

Uncleaned packagings:

• **Recommendation:** Disposal must be made according to official regulations.

14 Transport information

not regulated		
not regulated		
not regulated		
not regulated		
Not applicable.		
 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code Not applicable. 		
Not applicable.		
not regulated		

15 Regulatory information

• Safety, health and environmental regulations/legislation specific for the substance or mixture No further relevant information available.

· Sara

• Section 355 (extremely hazardous substances): Substance is not listed.

• Section 313 (Specific toxic chemical listings): Substance is not listed.

- TSCA (Toxic Substances Control Act): ACTIVE
- · Hazardous Air Pollutants Substance is not listed.
- · Chemicals known to cause cancer: Substance is not listed.
- · Chemicals known to cause reproductive toxicity for females: Substance is not listed.
- Chemicals known to cause reproductive toxicity for males: Substance is not listed.

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- · Chemicals known to cause developmental toxicity: Substance is listed.
- · Carcinogenic categories
- · EPA (Environmental Protection Agency) Substance is not listed.
- TLV (Threshold Limit Value) Substance is not listed.
- · NIOSH-Ca (National Institute for Occupational Safety and Health) Substance is not listed.
- Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

16 Other information

All chemicals may pose unknown hazards and should be used with caution. This SDS applies only to the material as packaged. If this product is combined with other materials, deteriorates, or becomes contaminated, it may pose hazards not mentioned in this SDS. Cayman Chemical Company assumes no responsibility for incidental or consequential damages, including lost profits, arising from the use of these data. It shall be the user's responsibility to develop proper methods of handling and personal protection based on the actual conditions of use. While this SDS is based on technical data judged to be reliable, Cayman Chemical Company assumes no responsibility for the completeness or accuracy of the information contained herein.

- · Department issuing SDS: Environment protection department.
- Contact: -
- Date of previous version 04/07/2022
- Date of preparation 01/21/2025
- · Abbreviations and acronyms: IMDG: International Maritime Code for Dangerous Goods DOT: US Department of Transportation IATA: International Air Transport Association EINECS: European Inventory of Existing Commercial Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) NFPA: National Fire Protection Association (USA) HMIS: Hazardous Materials Identification System (USA) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative NIOSH: National Institute for Occupational Safety **OSHA: Occupational Safety & Health** TLV: Threshold Limit Value PEL: Permissible Exposure Limit **REL: Recommended Exposure Limit** Skin irritation 2: Skin corrosion/irritation - Category 2 Eye irritation 2A: Serious eye damage/eye irritation - Category 2A Reproductive toxicity 2: Reproductive toxicity - Category 2 * Data compared to the previous version altered.