

Safety Data Sheet

acc. to OSHA HCS

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1 Identification · Product identifier Trade name: Sulfamethoxazole-d4 · Synonym 4-amino-N-(5-methyl-3-isoxazolyl)-benzene-2,3,5,6-d4-sulfonamide · CAS Number: 1020719-86-1 · Other means of identification · Article number: 28618 · 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: Cayman 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 Germ cell mutagenicity 1A H340 May cause genetic defects. Carcinogenicity 2 H351 Suspected of causing cancer. **GHS09** Environment Aquatic Acute 1 H400 Very toxic to aquatic life. Aquatic Chronic 1 H410 Very toxic to aquatic life with long lasting effects. GHS07 Skin irritation 2 H315 Causes skin irritation. (Contd. on page 2)

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Eye irritation 2A	A H319 Causes serious eye irritation.
Sensitization -	skin 1 H317 May cause an allergic skin reaction.
Specific target	organ toxicity (single exposure) 3 H335 May cause respiratory irritation.
Label element	S
GHS label eler	
 Hazard pictog 	is classified and labeled according to the Globally Harmonized System (GHS). rams
GHS07 GHS	08 GHS09
· Signal word D	
• Hazard statem	
H315 Causes s	serious eye irritation.
	se an allergic skin reaction.
	se genetic defects.
	ed of causing cancer.
	se respiratory irritation.
	c to aquatic life with long lasting effects.
· Precautionary	statements
P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
P261	Avoid breathing dust/fume/gas/mist/vapors/spray
P264	Wash thoroughly after handling.
P271	Use only outdoors or in a well-ventilated area.
P272 P273	Contaminated work clothing must not be allowed out of the workplace. Avoid release to the environment.
P273 P280	Wear protective gloves/protective clothing/eye protection/face protection/hearing
F200	protection.
P302+P352	If on skin: Wash with plenty of water.
P304+P340	If inhaled: Remove person to fresh air and keep comfortable for breathing.
	338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if
	present and easy to do. Continue rinsing.
P308+P313	IF exposed or concerned: Get medical advice/attention.
P312	Call a poison center/doctor if you feel unwell.
P321	Specific treatment (see on this label).
P362+P364	Take off contaminated clothing and wash it before reuse.
P333+P313	If skin irritation or rash occurs: Get medical advice/attention.
P337+P313	If eye irritation persists: Get medical advice/attention.
P391 P403+P233	Collect spillage. Store in a well-ventilated place. Keep container tightly closed.
P405+P255 P405	Store locked up.
P501	Dispose of contents/container in accordance with local/regional/national/international
	regulations.
· Information pe	ertaining to particular dangers for man and environment:
Classification	
• NFPA ratings	
	ealth = 2
	re = 0
	eactivity = 0

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· HMIS-ratings (scale 0 - 4)

HEALTH *2	Health = *2
	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.

· 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

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4 First-aid measures

· Description of first aid measures

• After inhalation:

Supply fresh air and to be sure call for a doctor.

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.

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• Environmental precautions: Inform respective authorities in case of seepage into water course or sewage system. 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. Ensure adequate ventilation.

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.

See Section 13 for disposal information.

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:

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.

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· 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.

• Eye protection:



Tightly sealed goggles

9 Physical and chemical properties

 General Information Physical state Color: Odor: Odor: Structural Formula Molecular Weight Storage Buffer Odor threshold: Formulation Melting point/Melting range: Undetern 	eristic 94N3O3S mol rrmined. mined.
 Color: Not dete Odor: Characte Structural Formula Molecular Weight Storage Buffer Odor threshold: Not dete Formulation 	eristic 94N3O3S mol rrmined. mined.
· Odor: Character · Structural Formula C10H7D · Molecular Weight 257.3 g/r · Storage Buffer	eristic 94N3O3S mol rrmined. mined.
 Structural Formula Molecular Weight Storage Buffer Odor threshold: Formulation C10H7D C10H7D C10H7D C10H7D C10H7D C10H7D C10H7D C10H7D C10H7D 	4N3O3S mol rrmined. mined.
Molecular Weight 257.3 g/m Storage Buffer Odor threshold: Not dete Formulation	mol rmined. mined.
Storage Buffer Odor threshold: Not dete Formulation	rmined. mined.
Odor threshold: Not dete Formulation	mined.
Formulation	mined.
• Melting point/Melting range: Undeter	
	and an all
Boiling point/Boiling range: Undetern	minea.
	is not flammable.
· Explosion limits:	
Lower: Not dete	rmined.
· Upper: Not dete	rmined.
• Flash point: Not appl	icable.
Decomposition temperature: Not dete	rmined.
• pH-value: Not appl	icable.
· Viscosity:	
· Kinematic: Not appl	icable.
	slightly soluble; Methanol: slightly soluble
· Dynamic: Not appl	icable.
Solubility in / Miscibility with	
• Water: Not dete	
• Partition coefficient (n-octanol/water): Not dete	
· Vapor pressure: Not appl	icable.

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· 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 health
and environment, and on safety.	
Ignition temperature:	Not determined.
Danger of explosion:	Product does not present an explosion hazard.
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 monoxide; nitrogen oxides; sulfur oxides

11 Toxicological information

- · Information on toxicological effects
- Acute toxicity:
- · Primary irritant effect:
- · on the skin: Irritant to skin and mucous membranes.
- · on the eye: Irritating effect.
- · Sensitization: Sensitization possible through skin contact.
- 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.

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- · 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.
- Other adverse effects
- · Remark: Very toxic for fish
- Additional ecological information:
- · General notes:

Water hazard class 3 (Self-assessment): extremely hazardous for water

Do not allow product to reach ground water, water course or sewage system, even in small quantities. Danger to drinking water if even extremely small quantities leak into the ground.

Also poisonous for fish and plankton in water bodies.

Very toxic for aquatic organisms

13 Disposal considerations

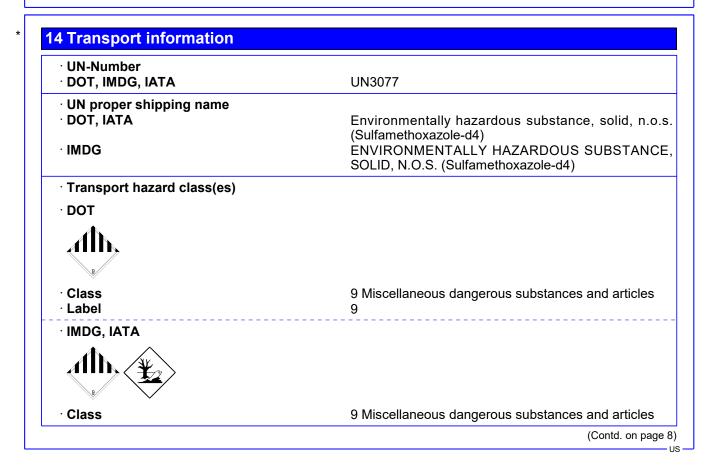
· Waste treatment methods

· 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.



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Label	9
Packing group DOT, IMDG, IATA	III
Environmental hazards: Marine pollutant: Special marking (IATA):	Symbol (fish and tree) Symbol (fish and tree)
Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	Not applicable.
Transport/Additional information:	
DOT Quantity limitations	On passenger aircraft/rail: No limit On cargo aircraft only: No limit
IMDG Limited quantities (LQ) Excepted quantities (EQ)	5 kg Code: E1 Maximum net quantity per inner packaging: 30 g Maximum net quantity per outer packaging: 1000 g
IATA Remarks:	When sold in quantities of less than or equal to 1 ml or 1 g, with an Excepted Quantity Code of E1, E2, E4, or E5, this item meets the De Minim Quantities exemption, per IATA 2.6.10. Therefore packaging does not have to be labeled a Dangerous Goods/Excepted Quantity.
Special precautions for user	Warning: Miscellaneous dangerous substances ar articles
Hazard identification number (Kemler code EMS Number: Stowage Category	e): 90 F-A,S-F A
Stowage Code	SW23 When transported in BK3 bulk container, se 7.6.2.12 and 7.7.3.9.
UN "Model Regulation":	UN 3077 ENVIRONMENTALLY HAZARDOU SUBSTANCE, SOLID, N.O.S (SULFAMETHOXAZOLE-D4), 9, III

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): Substance is not listed.
- · 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 not 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 11/07/2022 · Date of preparation 01/09/2025 · Abbreviations and acronyms: IMDG: International Maritime Code for Dangerous Goods DOT: US Department of Transportation IATA: International Air Transport Association CAS: Chemical Abstracts Service (division of the American Chemical Society) NFPA: National Fire Protection Association (USA) HMIS: Hazardous Materials Identification System (USA) PBT: Persistent, Bioaccumulative and Toxic

Specific target organ toxicity (single exposure) 3: Specific target organ toxicity (single exposure) - Category 3

Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard - Category 1

Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1 * Data compared to the previous version altered.

Eye irritation 2A: Serious eye damage/eye irritation - Category 2A

Germ cell mutagenicity 1A: Germ cell mutagenicity - Category 1A

vPvB: very Persistent and very Bioaccumulative NIOSH: National Institute for Occupational Safety

Skin irritation 2: Skin corrosion/irritation - Category 2

Sensitization - skin 1: Skin sensitisation - Category 1

Carcinogenicity 2: Carcinogenicity - Category 2

OSHA: Occupational Safety & Health TLV: Threshold Limit Value PEL: Permissible Exposure Limit REL: Recommended Exposure Limit