



CONSEIL DE L'EUROPE

Dorzolamide impurity A

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878 Issue date: 31/01/2023 Revision date: 03/03/2025 Supersedes version of: 31/01/2023 Version: 2.0

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

1.1. Product identifier	
Product form Substance name Chemical name	 Substance Dorzolamide impurity A (4R,6R)-4-(ethylamino)-6-methyl-5,6-dihydro-4H-thieno-[2,3-b]thiopyran-2-sulfonamide 7,7-dioxide
CAS-No.	: 120279-95-0
Product code	: 202200440
1.2. Relevant identified uses of the	e substance or mixture and uses advised against
Relevant identified uses	
Use of the substance/mixture	: Scientific research and development Technical testing and analysis For professional use only
Function or use category	: Laboratory chemicals
Uses advised against	
Restrictions on use	: Not for food, drug or home use
1.3. Details of the supplier of the s	afety data sheet
European Directorate for the Quality of M EDQM, Council of Europe 7, Allée Kastner, CS30026 F 67081 Strasbourg France T +33(0)388412035, F +33(0)388412771 sds@edqm.eu, www.edqm.eu	
1.4. Emergency telephone number	r

Emergency number

: +33(0)390215608

SECTION 2: Hazards identification

2.1. Classification of the substanc	e or mixture
Classification according to Regulation	(EC) No. 1272/2008 [CLP]
Acute toxicity (oral), Category 4 Specific target organ toxicity – Repeated	H302 exposure Category 2 H373
Full text of H- and EUH-statements: see s	
Adverse physicochemical, human heal	th and environmental effects
Harmful if swallowed. May cause damage	to organs through prolonged or repeated exposure.
2.2. Label elements	
Labelling according to Regulation (EC)	No. 1272/2008 [CLP]
Hazard pictograms (CLP)	
Signal word (CLP)	GHS07 GHS08 : Warning
Hazard statements (CLP)	 Warning H302 - Harmful if swallowed. H373 - May cause damage to organs (Other:Central nervous system, Gastrointestinal tract, Bone, Blood, Bladder) through prolonged or repeated exposure.

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Precautionary statements (CLP)	: P260 - Do not breathe dust/fume/gas/mist/vapours/spray.
	P264 - Wash hands, forearms and face thoroughly after handling.
	P270 - Do not eat, drink or smoke when using this product.
	P301+P312 - IF SWALLOWED: Call a POISON CENTRE or doctor if you feel unwell.
	P314 - Get medical advice/attention if you feel unwell.
	P330 - Rinse mouth.
	P501 - Dispose of contents/container to hazardous or special waste collection point, in
	accordance with local, regional, national and/or international regulation.
Labelling according to: Exemption for inner packaging	where the contents do not exceed 10ml.

Hazard pictograms (CLP)



2.3. Other hazards

Other information

: Warning - substance not yet tested completely.

SECTION 3: Composition/information on ingredients

3.1. Substances

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
(4R,6R)-4-(ethylamino)-6-methyl-5,6-dihydro-4H- thieno-[2,3-b]thiopyran-2-sulfonamide 7,7-dioxide	CAS-No.: 120279-95-0	≤ 100	Acute Tox. 4 (Oral), H302 STOT RE 2, H373

Full text of H- and EUH-statements: see section 16

SECTION 4: First aid measures	
4.1. Description of first aid measures	
First-aid measures general	: In all cases of doubt, or when symptoms persist, seek medical attention.
First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing. Allow the victim to rest. If the person feels unwell : Get medical advice/attention.
First-aid measures after skin contact	 Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse.
First-aid measures after eye contact	: Rinse with water while holding the eyes wide open. Obtain medical attention if pain, blinking or redness persists.
First-aid measures after ingestion	: Rinse mouth out with water (only if the person is conscious). Never give anything by mouth to an unconscious person. Immediately call a POISON CENTER/doctor.

4.2. Most important symptoms and effects, both acute and delayed

No additional information available

4.3. Indication of any immediate medical attention and special treatment needed

SECTION 5: Firefighting measures	
5.1. Extinguishing media	
Suitable extinguishing media	: Use extinguishing media appropriate for surrounding fire. Carbon dioxide. Water spray. Dry powder. Extinguishing blanket.
Unsuitable extinguishing media	: Do not use a heavy water stream.

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5.2. Special hazards arising from the subs	tance or mixture
Hazardous decomposition products in case of fire	: Incomplete combustion releases dangerous carbon monoxide, carbon dioxide and other toxic gases. Toxic fumes may be released.
5.3. Advice for firefighters	
Firefighting instructions Protection during firefighting	 Prevent fire fighting water from entering the environment. Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

SECTION 6: Accidental release	measures
6.1. Personal precautions, protecti	ve equipment and emergency procedures
General measures	: Avoid contact with skin, eyes and clothing.
For non-emergency personnel	
Emergency procedures	: Evacuate unnecessary personnel.
For emergency responders	
Protective equipment	: Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".
6.2. Environmental precautions	

Avoid release to the environment. Prevent entry to sewers and public waters.

6.3. Methods and material for containr	nent and cleaning up
For containment Methods for cleaning up	 Absorb with an inert material and place in an appropriate waste disposal container. Clean contaminated surfaces with an excess of water. Clean with the help of detergents.
6.4. Reference to other sections	

See Section 13 for disposal information.

SECTION 7: Handling and storage					
7.1. Precautions for safe handling					
Precautions for safe handling Hygiene measures	 Avoid all unnecessary exposure. Ensure good ventilation of the work station. Do not eat, drink or smoke when using this product. Contaminated work clothing should not be allowed out of the workplace. Wash hands before work breaks and after finishing work. 				
7.2. Conditions for safe storage, including any incompatibilities					
Storage conditions	: Store in a well-ventilated place. Keep container tightly closed. Keep away from heat and direct sunlight.				
Packaging materials	: Keep in original containers.				
7.3. Specific end use(s)					

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

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8.2. Exposure controls

Appropriate engineering controls

Appropriate engineering controls:

Ensure good ventilation of the work station. Both local exhaust and general room ventilation are usually required. Material should be handled in a laboratory hood whenever possible.

Personal protection equipment

Eye and face protection

Eye protection:

Wear eye protection. Safety glasses with side shields. (EN 166)

Skin protection

Skin and body protection: Wear suitable protective clothing. Laboratory use : Lab coat. (EN 13034)

Hand protection:

Wear suitable gloves. Chemically resistant protective gloves. (EN 374)

Respiratory protection

Respiratory protection:

In case of dust formation use respirator with filter: P3

SECTION 9: Physical and chemical p	operties	
9.1. Information on basic physical and ch	emical properties	
Physical state	: Solid	
Colour	: Not available	
Odour	: Not available	
Odour threshold	: Not available	
Melting point	: Not available	
Freezing point	: Not available	
Boiling point	: Not available	
Flammability	: Not available	
Lower explosion limit	: Not applicable	
Upper explosion limit	: Not applicable	
Flash point	: Not applicable	
Auto-ignition temperature	: Not applicable	
Decomposition temperature	: Not available	
pH	: Not available	
pH solution	: Not available	
Viscosity, kinematic	: Not applicable	
Solubility	: Not available	
Partition coefficient n-octanol/water (Log Kow)	: Not available	
Vapour pressure	: Not available	
Vapour pressure at 50°C	: Not available	
Density	: Not available	
Relative density	: Not available	
Relative vapour density at 20°C	: Not applicable	
Particle size	: Not available	
9.2. Other information		
No additional information available		
No additional information available		

SECTION 10: Stability and reactivity

10.1. Reactivity

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10.2. Chemical stability
No additional information available
10.3. Possibility of hazardous reactions
No additional information available
10.4. Conditions to avoid
No additional information available
10.5. Incompatible materials
No additional information available
10.6. Hazardous decomposition products

No additional information available

SECTION 11: Toxicological information		
11.1. Information on hazard classes as de	ned in Regulation (EC) No 1272/2008	
Acute toxicity (oral) Acute toxicity (dermal) Acute toxicity (inhalation)	 Harmful if swallowed. Not classified (Lack of data) Not classified (Lack of data) 	
(4R,6R)-4-(ethylamino)-6-methyl-5,6-dihy	o-4H-thieno-[2,3-b]thiopyran-2-sulfonamide 7,7-dioxide (120279-95-0)	
LD50 oral rat	300 – 2000 mg/kg	
Skin corrosion/irritation	Not classified (Lack of data)	
Serious eye damage/irritation	: Not classified (Lack of data)	
Respiratory or skin sensitisation	: Not classified (Lack of data)	
Germ cell mutagenicity	: Not classified (Lack of data)	
Carcinogenicity	: Not classified (Lack of data)	
Reproductive toxicity	: Not classified (Lack of data)	
STOT-single exposure	: Not classified (Lack of data)	
STOT-repeated exposure	: May cause damage to organs (Other:Central nervous system, Gastrointestinal tract, Bor Blood, Bladder) through prolonged or repeated exposure.	ne,
Aspiration hazard	: Not classified (Technical impossibility to obtain the data)	

11.2. Information on other hazards

SECTION 12: Ecological information	
12.1. Toxicity	
Hazardous to the aquatic environment, short-term : (acute)	Not classified (Lack of data)
	Not classified (Lack of data)
12.2. Persistence and degradability	
(4R,6R)-4-(ethylamino)-6-methyl-5,6-dihydro-4	H-thieno-[2,3-b]thiopyran-2-sulfonamide 7,7-dioxide (120279-95-0)
Persistence and degradability	Not rapidly degradable
12.3. Bioaccumulative potential	
No additional information available	

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12.4. Mobility in soil
No additional information available
12.5. Results of PBT and vPvB assessment
No additional information available
12.6. Endocrine disrupting properties
No additional information available
12.7. Other adverse effects
No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

No additional information available

SECTION 14: Transport information

In accordance with ADR / IMDG / IATA

ADR	IMDG	ΙΑΤΑ	
14.1. UN number or ID number	14.1. UN number or ID number		
Not applicable	Not applicable	Not applicable	
14.2. UN proper shipping name			
Not applicable	Not applicable	Not applicable	
14.3. Transport hazard class(es)			
Not applicable	Not applicable	Not applicable	
14.4. Packing group			
Not applicable	Not applicable	Not applicable	
14.5. Environmental hazards			
Not applicable	Not applicable	Not applicable	
No supplementary information available			
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14.6. Special precautions for user

Overland transport Not applicable

Transport by sea Not applicable

Air transport Not applicable

14.7. Maritime transport in bulk according to IMO instruments

Not applicable

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SECTION 15: Regulatory information

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

EU-Regulations

REACH Annex XVII (Restriction List)

Not listed on REACH Annex XVII

REACH Annex XIV (Authorisation List)

Not listed on REACH Annex XIV (Authorisation List)

REACH Candidate List (SVHC)

Not listed on the REACH Candidate List

Ozone Regulation (1005/2009)

Not listed on the Ozone Depletion list (Regulation EU 1005/2009)

Council Regulation (EC) for the control of dual-use items

Not listed on the COUNCIL REGULATION (EC) of dual-use items.

Explosives Precursors Regulation (2019/1148)

Contains no substance(s) listed on the Explosives Precursors list (Regulation EU 2019/1148 on the marketing and use of explosives precursors)

Drug Precursors Regulation (273/2004)

Contains no substance(s) listed on the Drug Precursors list (Regulation EC 273/2004 on the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances)

15.2. Chemical safety assessment

No additional information available

SECTION 16: Other information

Indication of changes		
Section	Changed item	Comments
	Supersedes version of	Added
	Revision date	Added
1.1	CAS-No.	Added
1.2	Restrictions on use	Modified
1.2	Use of the substance/mixture	Modified
1.2	Main use category	Removed
2.1	Adverse physicochemical, human health and environmental effects	Modified
2.3	Other information	Added
4.1	First-aid measures after ingestion	Added
4.1	First-aid measures after inhalation	Added
4.1	First-aid measures general	Added
4.1	First-aid measures after skin contact	Modified
4.1	First-aid measures after eye contact	Modified
5.1	Unsuitable extinguishing media	Added
5.1	Suitable extinguishing media	Modified

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Indication of changes		
Section	Changed item	Comments
5.2	Hazardous decomposition products in case of fire	Added
5.2	Fire hazard	Removed
5.3	Protection during firefighting	Added
5.3	Firefighting instructions	Modified
6.1	Protective equipment	Added
6.1	General measures	Added
6.1	Emergency procedures	Modified
6.2	Environmental precautions	Added
6.3	For containment	Added
6.3	Methods for cleaning up	Added
6.4	Reference to other sections (8, 13)	Added
7.1	Precautions for safe handling	Added
7.1	Hygiene measures	Added
7.2	Packaging materials	Added
7.2	Storage conditions	Added
7.3	Specific end uses	Removed
8.2	Eye protection	Added
8.2	Respiratory protection	Added
8.2	Hand protection	Modified
8.2	Appropriate engineering controls	Modified
8.2	Skin and body protection	Modified
10.1	Reactivity	Removed
10.3	Possibility of hazardous reactions	Removed
10.5	Incompatible materials	Removed
10.6	Hazardous decomposition products	Removed
12.1	Ecology - general	Removed

Full text of H- and EUH-statements:	
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
H302	Harmful if swallowed.
H373	May cause damage to organs (Other:Central nervous system, Gastrointestinal tract, Bone, Blood, Bladder) through prolonged or repeated exposure.
STOT RE 2	Specific target organ toxicity – Repeated exposure, Category 2

Safety Data Sheet (SDS), EU

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