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Safety Data Sheet acc. to OSHA HCS

Date of issue: 12/06/2024

Revision date 12/06/2024

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 Product identifier 	
Trade name: <u>Clomazone</u>	
 Synonym 2-[(2-chlorophen CAS Number: 	yl)methyl]-4,4-dimethyl-3-isoxazolidinone
81777-89-1	
Other means of identifica	tion
· Article number: 23298	
· EC number:	
617-258-0	
• Index number: 613-340-00-5	
· Application of the substa	nce / the mixture
	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:	
 Information department: I Emergency telephone number 	mber:
Information department:	mber: es: +1 (734) 971-3335
 Information department: I Emergency telephone number of the second second	mber: es: +1 (734) 971-3335 0
• Information department: I • Emergency telephone nu During normal opening time US/CANADA: 800-424-930	mber: es: +1 (734) 971-3335 0
 Information department: I Emergency telephone number of the second second	mber: es: +1 (734) 971-3335 0 .741-5970
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Information department: Inform	mber: es: +1 (734) 971-3335 0 741-5970 on etance or mixture ent H400 Very toxic to aquatic life. H410 Very toxic to aquatic life with long lasting effects. H302 Harmful if swallowed. H312 Harmful in contact with skin.

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Trade name: Clomazone

H319 Causes serious eye irritation. H410 Very toxic to aquatic life with long lasting effects. Precautionary statements P261 Avoid breathing dust/fume/gas/mist/vapors/spray P264 Wash thoroughly after handling. P270 Do not eat, drink or smoke when using this product. P271 Use only outdoors or in a well-ventilated area. P273 Avoid release to the environment. P280 Wear protective gloves/protective clothing/eye protection/face protection/hea protection. P301+P312 If swallowed: Call a poison center/doctor if you feel unwell. P330 Rinse mouth. P302+P352 If on skin: Wash with plenty of water. P321 Specific treatment (see on this label). P304+P340 If inhaled: Remove person to fresh air and keep comfortable for breathing. P332+P313 If skin irritation occurs: Get medical advice/attention. P362+P364 Take off contaminated clothing and wash it before reuse. P37+P313 If eye irritation persists: Get medical advice/attention. P382+P313 If eye irritation persists: Get medical advice/attention. P361 Collect spillage. P501 Dispose of contents/container in accordance with local/regional/	Eye irritation 2A	(Contd. from pa H319 Causes serious eye irritation.
The substance is classified and labeled according to the Globally Harmonized System (GHS). Hazard starp pictograms Signal word Warning Hazard statements H302+H312+H332 Harmful if swallowed, in contact with skin or if inhaled. H315 Causes skin irritation. H319 Causes serious eye irritation. H310 Very toxic to aquatic life with long lasting effects. Precautionary statements P261 Avoid breathing dust/fume/gas/mist/vapors/spray P264 Wash thoroughly after handling. P270 Do not eat, drink or smoke when using this product. P271 Use only outdoors or in a well-ventilated area. P273 Avoid release to the environment. P280 Wear protection gloves/protective clothing/eye protection/face protection/hea protection. P301+P312 If swallowed: Call a poison center/doctor if you feel unwell. P330 Rinse mouth. P302+P332 If on skin: Wash with plenty of water. P331 Specific treatment (see on this label). P304+P330 If inhaled: Remove person to fresh air and keep comfortable for breathing. P304+P331 If skin irritation occurs: Get medical advice/attention. P304+P331 If skin irritation docurs: Get medical advice/attention. P304 Collect spillage. P304 Take of contaminated clothing and wash it before reuse. P337+P313 If eye irritation persists: Get medical advice/attention. P304 P340 Take of contaminated clothing and wash it before reuse. P337+P313 If eye irritation persists: Get medical advice/attention. P304 P340 Collect spillage. P304 P340 Fire = 0 Reactivity = 0 HMIS-ratings (scale 0 - 4) H4x112 Health = 2 Fire = 0 Reactivity = 0 Cher hazards Results of PBT and vPVB assessment PET: Not applicable.	Label elements	s
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- · vPvB: Not applicable.
- Classification according to (d)(1)(ii) of § 1910.12000

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 81777-89-1 Clomazone
- · Identification number(s)
- EC number: 617-258-0
- · Index number: 613-340-00-5

4 First-aid measures

· Description of first aid measures

General information:

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

· After inhalation:

Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.

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: Immediately call a 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: Mouth respiratory protective device.

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: 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

- Thorough dedusting.
- Ensure good ventilation/exhaustion at the workplace.
- 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.

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.

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• 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

Information on basic physical and chemic	al properties
 General Information 	
[•] Physical state	Solid
· Color:	Not determined.
· Odor:	Characteristic
Structural Formula	C12H14CINO2
• Molecular Weight	239.7 g/mol
· Storage Buffer	-
Odor threshold:	Not determined.
· Formulation	
 Melting point/Melting range: 	Undetermined.
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.
· SOLUBILITY	DMF: 33 mg/ml; DMSO: 16 mg/ml; Ethanol: 33 mg/
	ml; PBS (pH 7.2): 1 mg/ml
· Dynamic:	Not applicable.
 Solubility in / Miscibility with 	
· 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.
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· Other information	
· Appearance:	
· Form:	Solid
 Important information on protection of heat and environment, and on safety. 	alth
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, carbon monoxide, nitrogen oxides

11 Toxicological information

- · RTECS Number NY2977000
- · Information on toxicological effects
- · Acute toxicity:

· LD/LC50 values that are relevant for classification:

Oral	LD50	768 mg/kg (ATE)
		1,369 mg/kg (rat)

Inhalative LC50/4 h 4.85 mg/l (ATE)

- 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.

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- 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.
- · 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.

UN-Number DOT, IMDG, IATA	UN3077
UN proper shipping name DOT, IATA	Environmentally hazardous substance, solid, n.o. (Clomazone)
IMDG	ENVIRONMENTALLY HAZARDOUS SUBSTANC SOLID, N.O.S. (Clomazone)
Transport hazard class(es)	
DOT	
	9 Miscellaneous dangerous substances and articles
Label	9 Miscellaneous dangerous substances and articles 9
Class Label IMDG, IATA	9

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	(Contd. from page
· 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: 400 kg On cargo aircraft only: 400 kg
 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 Minimi 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 an
 Hazard identification number (Kemler code) EMS Number: Stowage Category Stowage Code 	articles): 90 F-A,S-F A 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. (CLOMAZONE), 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.
- Chemicals known to cause developmental toxicity: Substance is not listed.

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- · 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 10/21/2022
- · Date of preparation 12/06/2024

· 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 Acute toxicity - oral 4: Acute toxicity – Category 4 Skin irritation 2: Skin corrosion/irritation – Category 2 Eye irritation 2A: Serious eye damage/eye irritation - Category 2A 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.