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1 Identification	
· Product identifier	
· Trade name: <u>Palosuran</u>	
 Synonym N-[2-[4-hydroxy-4-(phenylmethyl)-1-pipe ACT058362 CAS Number: 540769-28-6 Other means of identification 	eridinyl]ethyl]-N'-(2-methyl-4-quinolinyl)-urea
 Article number: 23460 Application of the substance / the mi This product is for research use - Not for 	xture or human or veterinary diagnostic or therapeutic use.
 Details of the supplier of the safety d Manufacturer/Supplier: Cayman Chemical Co. 1180 E. Ellsworth Rd. Ann Arbor, MI 48108 USA 	lata sheet
 Information department: Product safe Emergency telephone number: During normal opening times: +1 (734) US/CANADA: 800-424-9300 Outside US/CANADA: 703-741-5970 	
2 Hozard(a) identification	
2 Hazard(s) identification	
· Classification of the substance or mi	ixture
GHS07	
Acute toxicity - oral 4	H302 Harmful if swallowed.
Skin irritation 2	H315 Causes skin irritation.
Eye irritation 2A	H319 Causes serious eye irritation.

· GHS label elements

*

The substance is classified and labeled according to the Globally Harmonized System (GHS). (Contd. on page 2)

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	(Contd. from page 1)
· Hazard pictog	
~	
GHS07	
· Signal word W	
· Hazard statem	
H302 Harmful i H315 Causes s	
	serious eye irritation.
	se respiratory irritation.
· Precautionary	
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.
P280	Wear protective gloves / eye protection / face 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.
P305+P351+P3	338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if
	present and easy to do. Continue rinsing.
P332+P313	If skin irritation occurs: Get medical advice/attention.
P362+P364	Take off contaminated clothing and wash it before reuse.
P337+P313	If eye irritation persists: Get medical advice/attention.
P403+P233 P405	Store in a well-ventilated place. Keep container tightly closed. Store locked up.
P501	Dispose of contents/container in accordance with local/regional/national/international
1 301	regulations.
· Information pe	ertaining to particular dangers for man and environment:
· Classification	
NFPA ratings	
	ealth = 2
	re = 0
	eactivity = 0
· HMIS-ratings ((scale 0 - 4)
HEALTH 2	Health = 2
	Fire = 0
	Reactivity = 0
Other hazards	
	T and vPvB assessment
• PBT: Not appli	
· vPvB: Not app	
· Classification	according to (d)(1)(ii) of & 1910 12000

• 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.

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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

540769-28-6 Palosuran

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: 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: 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: 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.

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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:
- 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.

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 chemical p	properties
General Information	
· Physical state	Solid
· Color:	Not determined.
Odor:	Characteristic
Structural Formula	C25H30N4O2
· Molecular Weight	418.5 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: 10 mg/ml; DMSO: 10 mg/ml; DMSO:PBS (pH
	7.2) (1:1): 0.5 mg/ml;Ethanol: 0.5 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.
• Other information	
· Appearance:	Calid
· 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.
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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: oxidizing agents
- · Hazardous decomposition products: carbon dioxide, carbon monoxide, nitrogen oxides

11 Toxicological information

- · RTECS Number YT8860000
- Information on toxicological effects
- · Acute toxicity:

· LD/LC50 values that are relevant for classification:

Oral TDLO 28.6 ml/kg (human)

- 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.
- · Other adverse effects
- · Additional ecological information:
- · General notes:

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

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(Contd. from page 6) 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.

UN-Number	
DOT, IMDG, IATA	not regulated
UN proper shipping name	
DOT, IMDG, IATA	not regulated
Transport hazard class(es)	
DOT, ADN, IMDG, IATA	
Class	not regulated
Packing group	
DOT, IMDG, IATA	not regulated
Environmental hazards:	Not applicable.
Transport in bulk according to Annex	c II of
MARPOL73/78 and the IBC Code	Not applicable.
Special precautions for user	Not applicable.
UN "Model Regulation":	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): 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.
- · Carcinogenic categories
- EPA (Environmental Protection Agency) Substance is not listed.
- TLV (Threshold Limit Value) Substance is not listed.

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· 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 10/05/2022
- Date of preparation 11/19/2024
- · 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) 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 Specific target organ toxicity (single exposure) 3: Specific target organ toxicity (single exposure) - Category 3
- * Data compared to the previous version altered.