

Safety Data Sheet

acc. to OSHA HCS

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1 Identification · Product identifier · Trade name: Carbazeran • Synonym N-ethyl-carbamic acid, 1-(6,7-dimethoxy-1-phthalazinyl)-4-piperidinyl ester · Article number: 26092 · CAS Number: 70724-25-3 · EC number: 804-246-7 · 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/CĂNADA: 800-424-9300 Outside US/CANADA: 703-741-5970 2 Hazard(s) identification · Classification of the substance or mixture GHS06 Skull and crossbones Acute Toxicity - Oral 3 H301 Toxic if swallowed. · Label elements · GHS label elements The substance is classified and labeled according to the Globally Harmonized System (GHS). · Hazard pictograms GHS06 · Signal word Danger

• Hazard statements H301 Toxic if swallowed.

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 Precautionary statements P264 Wash thoroughly after handling. P270 Do not eat, drink or smoke when using this product. P301+P310 If swallowed: Immediately call a poison center/doctor. P321 Specific treatment (see on this label). P330 Rinse mouth. P405 Store locked up. P501 Dispose of contents/container in accordance with local/regional/national/intern regulations. Classification system: NFPA ratings (scale 0 - 4) P407 Eire = 0 Reactivity = 0 HMIS-ratings (scale 0 - 4) Health = 2 Fire = 0 Reactivity = 0 HMIS-ratings (scale 0 - 4) Health = 2 Health = 2 Fire = 0 Reactivity = 0 Chemical characterization: Substances CAS No. Description 70724-25-3 Carbazeran Identification number(s) EC number: 804-246-7 A First-aid measures General information: In case of unconsciousness place patient stably in side position for transportatio After skin contact: Immediately wash with water and scape and rinse thoroughly. After eye contact: Rinse opened eye for several minutes under running water. Then consult a do 	Trade fiame. O		
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 After swallowing: Do not induce vomiting; immediately call for medical help. Information for 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. 	General inf Immediately In case of ir After inhala After skin o After eye c After swall Information Most impor No further r	formation: y remove any clothing soiled by the product. rregular breathing or respiratory arrest provide and ation: In case of unconsciousness place patient s contact: Immediately wash with water and soap a ontact: Rinse opened eye for several minutes ur owing: Do not induce vomiting; immediately call n for doctor: rtant symptoms and effects, both acute and d relevant information available. of any immediate medical attention and speci	stably in side position for transportation. and rinse thoroughly. nder running water. Then consult a doctor. for medical help. Ielayed

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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.
- 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.
- Protective Action Criteria for Chemicals
- · PAC-1: Substance is not listed.
- **PAC-2:** Substance is not listed.
- **PAC-3:** Substance is not listed.

7 Handling and storage

- · Handling:
- · Precautions for safe handling Thorough dedusting.
- · 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: None.
- · Specific end use(s) No further relevant information available.

8 Exposure controls/personal protection

· Additional information about design of technical systems: No further data; see section 7.

- · 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
- · 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.

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· Breathing equipment: Not required.

• Protection of hands:

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: Not required.

9 Physical and chemical properties

 Information on basic physical and General Information 	chemical properties
· Appearance:	
Form:	Solid
Color:	Not determined.
· Odor:	Characteristic
• Structural Formula	C18H24N4O4
· Molecular Weight	360.4 g/mol
· Odor threshold:	Not determined.
· pH-value:	Not applicable.
· Change in condition	
Melting point/Melting range:	Undetermined.
Boiling point/Boiling range:	Undetermined.
· Flash point:	Not applicable.
· Flammability:	Product is not flammable.
· Decomposition temperature:	Not determined.
· Ignition temperature:	Not determined.
· Danger of explosion:	Product does not present an explosion hazard.
· Explosion limits:	
Lower:	Not determined.
Upper:	Not determined.
· Vapor pressure:	Not applicable.
· Density:	Not determined.
· Relative density	Not determined.
· Vapor density	Not applicable.
· Evaporation rate	Not applicable.
 Solubility in / Miscibility with 	
Water:	Not determined.
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· Partition coefficient (n-octanol/water): Not determined.				
· Viscosity:				
Dynamic:	Not applicable.			
Kinematic:	Not applicable.			
SOLUBILITY	Chloroform: Slightly Soluble; Methanol: Slightly Soluble			
· Other information	No further relevant information available.			
· Other information	No further relevant information available.			

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

11 Toxicological information

- · Information on toxicological effects
- · Acute toxicity:
- Primary irritant effect:
- on the skin: No irritant effect.
- · on the eye: No irritating effect.
- Sensitization: No sensitizing effects known.
- · Additional toxicological information:
- · 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.

12 Ecological information

- · Toxicity
- Aquatic toxicity: No further relevant information available.
- Persistence and degradability No further relevant information available.
- · Behavior in environmental systems:
- · Bioaccumulative potential No further relevant information available.
- Mobility in soil No further relevant information available.
- · 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.

- Results of PBT and vPvB assessment
- **PBT:** Not applicable.
- · vPvB: Not applicable.

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· Other adverse effects No further relevant information available.

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	UN2811
UN proper shipping name DOT IMDG IATA	Toxic solids, organic, n.o.s. (Carbazeran) TOXIC SOLID, ORGANIC, N.O.S. (Carbazeran) Toxic solid, organic, n.o.s. (Carbazeran)
Transport hazard class(es)	
Class Label	6.1 Toxic substances 6.1
Class Label	6.1 Toxic substances 6.1
Packing group DOT, IMDG, IATA	
Environmental hazards:	Not applicable.
Special precautions for user Hazard identification number (Kem EMS Number: Stowage Category	Warning: Toxic substances Iler code): 60 F-A,S-A A
Transport in bulk according to Anr MARPOL73/78 and the IBC Code	nex II of Not applicable.

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Transport/Additional information:	
DOT	
Quantity limitations	On passenger aircraft/rail: 100 kg On cargo aircraft only: 200 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
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.
UN "Model Regulation":	UN 2811 TOXIC SOLID, ORGANIC, N.O.S (CARBAZERAN), 6.1, 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.
- · Proposition 65
- · 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.
- · 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.

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 Department issuing SDS: Environment protection department. 	
Contact: -	
 Date of preparation / last revision 08/13/2024 / - 	
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)	
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 3: Acute toxicity – Category 3	
• * Data compared to the previous version altered.	
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