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Safety Data Sheet acc. to OSHA HCS

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1	Identification
	Product identifier
•	Trade name: <u>U-48520</u> Synonym trans-4-chloro-N-[2-(dimethylamino)cyclohexyl]-N-methyl-benzamide Deschloro U-47700 CAS Number: 67579-11-7 Other means of identification
•	Article number: 26274 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
	Hazard(s) identification
•	Classification of the substance or mixture
	GHS07
	Acute toxicity - oral 4 H302 Harmful if swallowed.
	Acute toxicity - dermal 4 H312 Harmful in contact with skin. Acute toxicity - inhalation 4 H332 Harmful if inhaled.
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· Label elements

· GHS label elements

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 pictograms GHS07 · Signal word Warning Hazard statements H302+H312+H332 Harmful if swallowed, in contact with skin or if inhaled. Precautionary statements Avoid breathing dust/fume/gas/mist/vapors/spray P261 P264 Wash thoroughly after handling. P270 Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area. P271 Wear protective gloves / protective clothing. P280 P301+P312 If swallowed: Call a poison center/doctor if you feel unwell. P302+P352 If on skin: Wash with plenty of water. P304+P340 If inhaled: Remove person to fresh air and keep comfortable for breathing. P321 Specific treatment (see on this label). P330 Rinse mouth. P362+P364 Take off contaminated clothing and wash it before reuse. P501 Dispose of contents/container in accordance with local/regional/national/international regulations. · Information pertaining to particular dangers for man and environment: Classification system: · NFPA ratings (scale 0 - 4) Health = 3 Fire = 0Reactivity = 0 · HMIS-ratings (scale 0 - 4) HEALTH 2 Health = 2 FIRE 0 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.

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3 Composition/information on ingredients

- · Chemical characterization: Substances
- · CAS No. Description
- 67579-11-7 U-48520

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: Generally the product does not irritate the skin.
- After eye contact: Rinse opened eye for several minutes under running water.
- · 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.
- 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.
- See Section 13 for disposal information.

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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: 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.

• Eye protection: Not required.

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Information on boois abusiast and chamics	al proportion			
Information on basic physical and chemica General Information	al properties			
Physical state	Solid			
Color:	Not determined.			
Odor:	Characteristic			
Structural Formula	C16H23CIN2O			
Molecular Weight	294.8 g/mol			
Storage Buffer	20 110 g/moi			
Odor threshold:	Not determined.			
Formulation	Hot dotorminou.			
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:	Not applicable.			
Kinematic:	Natappliashla			
	Not applicable.			
SOLUBILITY	DMF: 20 mg/mL; DMF:PBS (pH 7.2)(1:3): 0.25 mg			
Dynamia	mL; DMSO: 10 mg/mL; Ethanol: 10 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:				
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				

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.

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- · Possibility of hazardous reactions No dangerous reactions known.
- · Conditions to avoid No further relevant information available.
- · Incompatible materials: No further relevant information available.
- · Hazardous decomposition products: No dangerous decomposition products known.

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:
- · 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

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.

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· Uncleaned packagings:

• Recommendation: Disposal must be made according to official regulations.

· UN-Number · DOT, IMDG, IATA	not regulated			
· ·	notregulated			
 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 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.
- 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

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(Contd. from page 7) 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 06/21/2022 Date of preparation 02/13/2025 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 vPvB: very Persistent and very Bioaccumulative NIOSH: National Institute for Occupational Safety OSHA: Occupational Safety & Health TLV: Threshold Limit Value PEL: Permissible Exposure Limit Recommended Exposure Limit Acute toxicity - oral 4: Acute toxicity – Category 4 * Data compared to the previous version altered. 	
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