

Printing date 06/02/2022

Revision date 06/02/2022

Page 1/7

1 Identification

- · Product identifier
- · Trade name: DC-05
- · Article number: 36584
- CAS Number: 890643-16-0
- **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

2 Hazard(s) identification

· Classification of the substance or mixture



Acute Tox. 4 H302 Harmful if swallowed.

- · Label elements
- · GHS label elements
- The substance is classified and labeled according to the Globally Harmonized System (GHS). Hazard pictograms



Signal word Warning
 Hazard statements
 H302 Harmful if swallowed.

(Contd. on page 2)

Printing date 06/02/2022

Revision date 06/02/2022

Trade name: DC-05

	(Contd. from page 1)
	nary statements
P264	Wash thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
	2 If swallowed: Call a poison center/doctor if you feel unwell.
P330	Rinse mouth.
P501	Dispose of contents/container in accordance with local/regional/national/international
	regulations.
· Classifica	ition system:
	ngs (scale 0 - 4)
	Health = 2
	Fire = 0
	Reactivity = 0
· HMIS-ratir	ngs (scale 0 - 4)
HEALTH	2 Health = 2
FIRE	Image: State of the state o
REACTIVITY	
REACTIVITY	
• Results of • PBT: Not a • vPvB: Not	
3 Compos	sition/information on ingredients
· Chemical	characterization: Substances
	Description
890643-16	
4 First-ald	l measures
	on of first aid measures
General in	nformation:
Symptoms	s of poisoning may even occur after several hours; therefore medical observation for at least
	after the accident.
	lation: Supply fresh air; consult doctor in case of complaints.
,	
	CONTACT: Generally the product does not irritate the skin.
· After skin	contact: Generally the product does not irritate the skin.
 After skin After eye o 	contact: Rinse opened eye for several minutes under running water.
 After skin After eye o After swal 	contact: Rinse opened eye for several minutes under running water. Ilowing: Immediately call a doctor.
· After skin · After eye o · After swal · Informatic	contact: Rinse opened eye for several minutes under running water. Ilowing: Immediately call a doctor. on for doctor:
 After skin After eye o After swal Informatio Most impo 	contact: Rinse opened eye for several minutes under running water. Ilowing: Immediately call a doctor. on for doctor: ortant symptoms and effects, both acute and delayed
 After skin After eye o After swal Informatio Most impo May cause 	contact: Rinse opened eye for several minutes under running water. Ilowing: Immediately call a doctor. on for doctor: ortant symptoms and effects, both acute and delayed e anemia, cough, CNS depression, drowsiness, headache, heart damage, lassitude
 After skin After eye o After swal Informatio Most impo May cause (weakness 	contact: Rinse opened eye for several minutes under running water. Ilowing: Immediately call a doctor. on for doctor: ortant 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.

(Contd. on page 3)

US

Printing date 06/02/2022

Revision date 06/02/2022

Trade name: DC-05

(Contd. from page 2)

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: Pick up mechanically.
- 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
- Protective Action Criteria for Chemic
- **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

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: 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 item 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.

(Contd. on page 4)

US

Printing date 06/02/2022

Revision date 06/02/2022

Trade name: DC-05

(Contd. from page 3)

- · Exposure controls
- Personal protective equipment:
- · General protective and hygienic measures: Wash hands before breaks and at the end of work.
- · 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.

Physical and chemical prope	erties
· Information on basic physical and	chemical properties
· General Information	
· Appearance:	
Form:	Solid
Color:	Not determined.
· Odor:	Characteristic
Structural Formula	C25H25N3O
· Molecular Weight	383.5 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 (solid, gaseous):	Product is not flammable.
· Decomposition temperature:	Not determined.
· Auto igniting:	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.
	(Contd. on pag

Printing date 06/02/2022

Revision date 06/02/2022

Trade name: DC-05

		(Contd. from page 4)
· Solubility in / Miscibility with		
Water:	Not determined.	
· Partition coefficient (n-octane	ol/water): Not determined.	
· Viscosity:		
Dynamic:	Not applicable.	
Kinematic:	Not applicable.	
SOLUBILITY	12 mg/ml DMF	
· 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:** 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:
- · 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.

(Contd. on page 6)

US

Printing date 06/02/2022

Revision date 06/02/2022

(Contd. from page 5)

Trade name: DC-05

· Results of PBT and vPvB assessment

- · PBT: Not applicable.
- · vPvB: Not applicable.

• 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	not regulated	
UN proper shipping name DOT, IMDG, IATA	not regulated	
Transport hazard class(es)		
DOT, ADN, IMDG, IATA Class		
Class	not regulated	
Packing group		
DOT, IMDG, IATA	not regulated	
Environmental hazards:	Not applicable.	
Special precautions for user	Not applicable.	
Transport in bulk according to Annex	x II of	
MARPOL73/78 and the IBC Code	Not applicable.	

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.

(Contd. on page 7)

— US

Printing date 06/02/2022

Revision date 06/02/2022

Trade name: DC-05

(Contd. from page 6)

- · 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 preparation / last revision 06/02/2022 / -

 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 REL: Recommended Exposure Limit Acute Tox. 4: Acute toxicity – Category 4