

# **Safety Data Sheet**

acc. to OSHA HCS

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# **1** Identification

- · Product identifier
- · Trade name: N-desmethyl Trimipramine
- · Synonym

10,11-dihydro-N, $\beta$ -dimethyl-5H-dibenz[b,f]azepine-5-propanamine; Monodesmethyltrimipramine; Nortrimipramine

- · Other means of identification
- · Article number: 34982 · 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

Hazard(s) identification	
Classification of the substance or mixture	
GHS02 Flame	
Flammable liquids 2	H225 Highly flammable liquid and vapor.
Acute toxicity - oral 3	H301 Toxic if swallowed.
Acute toxicity - oral 3 Acute toxicity - dermal 3	H301 Toxic if swallowed. H311 Toxic in contact with skin.
Acute toxicity - definal 3 Acute toxicity - inhalation 3	H331 Toxic if inhaled.

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· Label elements	
<ul> <li>GHS label element</li> </ul>	
The product is cla • <b>Hazard pictogra</b>	assified and labeled according to the Globally Harmonized System (GHS). I <b>ms</b>
$\wedge$	
GHS02 GHS06	6 GH\$08
· <b>Signal word</b> Dar	nger
	ning components of labeling:
Methanol	
· Hazard stateme	
H225	Highly flammable liquid and vapor.
	31 Toxic if swallowed, in contact with skin or if inhaled.
H370	Causes damage to the central nervous system and the visual organs.
• Precautionary s	
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources.
P240	No smoking. Ground / bond container and receiving equipment.
P240 P241	Use explosion-proof [electrical/ventilating/lighting] equipment.
P242	Use non-sparking tools.
P242 P243	Take action to prevent static discharge.
P260	Do not breathe 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/protective clothing/eye protection/face protection/hearing
F 200	protection.
P301+P310	If swallowed: Immediately call a poison center/doctor.
P321	Specific treatment (see on this label).
P330	Rinse mouth.
	i3 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with
1 000 11 001 11 00	water [or shower].
P304+P340	If inhaled: Remove person to fresh air and keep comfortable for breathing.
P308+P311	IF exposed or concerned: Call a poison center/doctor.
P312	Call a poison center/doctor if you feel unwell.
P361+P364	Take off immediately all contaminated clothing and wash it before reuse.
P370+P378	In case of fire: Use CO2, powder or water spray to extinguish.
P403+P233	Store in a well-ventilated place. Keep container tightly closed.
P403+P235	Store in a well-ventilated place. Keep cool.
P405	Store locked up.
P501	Dispose of contents/container in accordance with local/regional/national/international
	regulations.
	taining to particular dangers for man and environment:
<ul> <li>Classification sy</li> </ul>	ystem:
<ul> <li>NFPA ratings (see</li> </ul>	cale 0 - 4)
	WL 0
	alth = 2
	a = 3
Kea	activity = 0
	(Contd. on page 3)
	(11), 11, 11, 11, 11, 11, 11, 11, 11, 11,

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· HMIS-ratings (scale 0 - 4)

HEALTH *2	Health = *2
	Fire = 3
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.

### **3 Composition/information on ingredients**

· Chemical characterization: Mixtures

• Description: Mixture of the substances listed below with nonhazardous additions.

· Dangerous components:

CAS: 67-56-1 Methanol RTECS: PC1400000

99.5%

0.5%

#### · Other ingredients

2293-21-2 N-Desmethyltrimipramine

#### **4 First-aid measures**

#### · Description of first aid measures

#### General information:

Immediately remove any clothing soiled by the product.

Remove breathing apparatus only after contaminated clothing have been completely removed.

In case of irregular breathing or respiratory arrest provide artificial respiration.

#### · After inhalation:

Supply fresh air or oxygen; call for doctor.

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. Then consult a doctor.
- After swallowing: Do not induce vomiting; immediately call for medical help.
- 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:

CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

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· Special hazards arising from the substance or mixture

67-56-1During heating or in case of fire poisonous gases are produced.

· Advice for firefighters

· Protective equipment: Mouth respiratory protective device.

#### 6 Accidental release measures

· Personal precautions, protective equipment and emergency procedures Mount respiratory protective device. Wear protective equipment. Keep unprotected persons away. Environmental precautions: Dilute with plenty of water. Do not allow to enter sewers/ surface or ground water. · Methods and material for containment and cleaning up: Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Dispose contaminated material as waste according to section 13. Ensure adequate ventilation. Protective Action Criteria for Chemicals · PAC-1: 67-56-1 Methanol 530 ppm · PAC-2: 67-56-1 Methanol 2,100 ppm · PAC-3: 67-56-1 Methanol 7200\* ppm **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
 Ensure good ventilation/exhaustion at the workplace.
 Open and handle receptacle with care.
 Prevent formation of aerosols.

- Information about protection against explosions and fires: Keep ignition sources away - Do not smoke.
   Protect against electrostatic charges.
   Keep respiratory protective device available.
- · 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: Store in a cool location.
- · Information about storage in one common storage facility: Not required.
- Further information about storage conditions: Keep receptacle tightly sealed. Store in cool, dry conditions in well sealed receptacles.
- Specific end use(s) No further relevant information available.

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<ul> <li>exposure use respiratory protective of Protection of hands:</li> <li>Protection of hands:</li> <li>Protective gloves</li> <li>The glove material has to be imperm Due to missing tests no recommendation preparation/ the chemical mixture.</li> <li>Selection of the glove material on degradation</li> <li>Material of gloves</li> <li>The selection of the suitable gloves</li> </ul>	require monitoring at the workplac	:e:
<ul> <li>REL Short-term value: 325 mg/m<sup>3</sup>, 2 Long-term value: 260 mg/m<sup>3</sup>, 2 Skin</li> <li>TLV Short-term value: 250 ppm Long-term value: 200 ppm Skin; BEIc</li> <li>Ingredients with biological limit value: 200 ppm Skin; BEIc</li> <li>Additional information: The lists the Exposure controls</li> <li>Appropriate engineering controls</li> <li>Personal protective equipment:</li> <li>General protective and hygienic m Keep away from foodstuffs, beverag Immediately remove all soiled and ca Wash hands before breaks and at th Store protective clothing separately. Avoid contact with the eyes and skin</li> <li>Breathing equipment: In case of brief exposure or low pole exposure use respiratory protective of Protection of hands:</li> <li>Protective gloves</li> <li>The glove material has to be imperm Due to missing tests no recomment preparation/ the chemical mixture. Selection of the glove material on degradation</li> <li>Material of gloves</li> <li>The selection of the suitable gloves</li> </ul>		
Long-term value: 260 mg/m³, 2 Skin TLV Short-term value: 250 ppm Long-term value: 200 ppm Skin; BEIc Ingredients with biological limit va 67-56-1 Methanol BEI 15 mg/L Medium: urine Time: end of shift Parameter: Methanol (backgrou Additional information: The lists th Exposure controls Appropriate engineering controls Personal protective equipment: General protective and hygienic m Keep away from foodstuffs, beverag Immediately remove all soiled and ca Wash hands before breaks and at th Store protective clothing separately. Avoid contact with the eyes and skin Breathing equipment: In case of brief exposure or low po exposure use respiratory protective of Protection of hands: The glove material has to be imperm Due to missing tests no recomment preparation/ the chemical mixture. Selection of the glove material on degradation Material of gloves The selection of the suitable gloves	0 ppm	
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The glove material has to be imperm Due to missing tests no recomme preparation/ the chemical mixture. Selection of the glove material on degradation <b>Material of gloves</b> The selection of the suitable gloves	ution use respiratory filter device. In evice that is independent of circulating	
Due to missing tests no recomme preparation/ the chemical mixture. Selection of the glove material on degradation <b>Material of gloves</b> The selection of the suitable gloves		
The selection of the suitable gloves	eable and resistant to the product/ the dation to the glove material can b onsideration of the penetration time	e given for the product/
	oes not only depend on the material er to manufacturer. As the product ve material can not be calculated in a	t is a preparation of seve

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 properties		
· General Information		
· Physical state	Liquid	
· Color:	According to product specification	
· Odor:	Alcohol-like	
· Structural Formula	C19H24N2	
· Molecular Weight	280.4 g/mol	
· Storage Buffer	, and the second s	
· Odor threshold:	Not determined.	
· Formulation	A solution in methanol	
<ul> <li>Melting point/Melting range:</li> </ul>	-98 °C (-144.4 °F)	
Boiling point/Boiling range:	64.7 °C (148.5 °F)	
Flammability:	Highly flammable.	
· Explosion limits:		
· Lower:	5.5 Vol %	
· Upper:	44 Vol %	
Flash point:	11 °C (51.8 °F)	
Auto igniting:	455 °C (851 °F)	
<ul> <li>Decomposition temperature:</li> </ul>	Not determined.	
pH-value:	Not determined.	
· Viscosity:		
Kinematic:	Not determined.	
· SOLUBILITY		
· Dynamic:	Not determined.	
<ul> <li>Solubility in / Miscibility with</li> </ul>		
Water at 20 °C (68 °F):	1000 g/l	
Partition coefficient (n-octanol/water):	Not determined.	
Vapor pressure at 20 °C (68 °F):	128 hPa (96 mm Hg)	
Vapor pressure:	·	
· Density at 20 °C (68 °F):	0.79 g/cm³ (6.59255 lbs/gal)	
· Relative density	Not determined.	
· Vapor density	Not determined.	
Particle characteristics	Not applicable.	
· Other information		
· Appearance:		
· Form:	Liquid	
· Important information on protection of heal		
and environment, and on safety.		
· Ignition temperature:	Product is not selfigniting.	
· Danger of explosion:	Product is not explosive. However, formation of	
Danger of Explosion.	explosive air/vapor mixtures are possible.	
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· Solvent content:		
· Organic solvents:	99.5 %	
· VOC content:	99.50 %	
	995.0 g/l / 8.30 lb/gal	
<ul> <li>Solids content:</li> </ul>	0.5 %	
Change in condition		
· Evaporation rate	Not determined.	
· Evaporation rate	Not determined.	

### 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:

· LD/LC50 values that are relevant for classification:
--

ATE (Acute Toxicity Estimate)		
Oral	LD50	101 mg/kg (rat)
Dermal	LD50	101 mg/kg (rat) 302 mg/kg (rabbit)
Inhalative	LC50/4 h	3.12 mg/l (rat)

67-56-1 M	67-56-1 Methanol			
Oral	LD50	100.1 mg/kg (rat) (Expert judgment) Remarks: Classified according to Regulation (EU) 1272/2008, Annex VI (Table 3.1/3.2) Symptoms: Nausea, Vomiting		
Dermal	LD50	300.1 mg/kg (rabbit) (Expert judgment) Remarks: Classified according to Regulation (EU) 1272/2008, Annex VI (Table 3.1/3.2)		
Inhalative	LC50/4 h	<ul> <li>3.1 mg/l (rat)</li> <li>(Expert judgment)</li> <li>Remarks: Classified according to Regulation (EU) 1272/2008, Annex VI (Table 3.1/3.2)</li> <li>Symptoms: Irritation symptoms in the respiratory tract.</li> </ul>		
· on the ski	• Primary irritant effect: • on the skin: No irritant effect. • on the eye: No irritating effect.			

· Sensitization: No sensitizing effects known.

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#### • Additional toxicological information:

The product shows the following dangers according to internally approved calculation methods for preparations: Toxic

· Interactive effects No interactive effects between components are known.

#### · Carcinogenic categories

· IARC (International Agency for Research on Cancer)

None of the ingredients is listed.

#### · NTP (National Toxicology Program)

None of the ingredients is listed.

#### · OSHA-Ca (Occupational Safety & Health Administration)

None of the ingredients is 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 2 (Self-assessment): hazardous for water

Do not allow product to reach ground water, water course or sewage system.

Danger to drinking water if even small quantities leak into the ground.

#### **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.
- Recommended cleansing agent: Water, if necessary with cleansing agents.

## 14 Transport information

- · UN-Number
- · DOT, IMDG, IATA

UN1230

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UN proper shipping name DOT, IATA IMDG	Methanol METHANOL
Transport hazard class(es)	
Class	3 Flammable liquids
Label	3, 6.1
Class Label	3 Flammable liquids 3/6.1
IATA	5,0,1
Class Label	3 Flammable liquids 3 (6.1)
Packing group DOT, IMDG, IATA	
Environmental hazards:	Not applicable.
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: 1 L On cargo aircraft only: 60 L
IMDG Limited quantities (LQ) Excepted quantities (EQ)	1L Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
ΙΑΤΑ	
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· 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 Minimis Quantities exemption, per IATA 2.6.10. Therefore packaging does not have to be labeled as Dangerous Goods/Excepted Quantity.
<ul> <li>Special precautions for user</li> </ul>	Warning: Flammable liquids
<ul> <li>Hazard identification number (Kemler code):</li> </ul>	336
EMS Number:	F-E,S-D
Stowage Category	В
· Stowage Code	SW2 Clear of living quarters.
· UN "Model Regulation":	UN 1230 METHANOL, 3 (6.1), II

# **15 Regulatory information**

• Safety, health and environmental regulations/legislation specific for the substance or mixture No further relevant information available.

Section	355 (extremely hazardous substances):	
None of	the ingredients is listed.	
Section	313 (Specific toxic chemical listings):	
67-56-1	Methanol	
TSCA (T	oxic Substances Control Act):	
67-56-1	Methanol	ACTI
Hazardo	us Air Pollutants	
67-56-1	Methanol	
Chemica	Is known to cause cancer:	
None of t	he ingredients is listed.	
Chemica	Is known to cause reproductive toxicity for females:	
None of	he ingredients is listed.	
Chemica	Is known to cause reproductive toxicity for males:	
None of	he ingredients is listed.	
Chemica	Is known to cause developmental toxicity:	
67-56-1	Methanol	
Carcino	genic categories	
EPA (En	vironmental Protection Agency)	
None of	he ingredients is listed.	
TLV (Th	reshold Limit Value)	
None of	he ingredients is listed.	
NIOSH-C	a (National Institute for Occupational Safety and Health)	
None of	he ingredients is listed.	
Chemica	Il safety assessment: A Chemical Safety Assessment has not been carried out.	

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#### **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 04/04/2022 Date of preparation 01/21/2025 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 ELINCS: European List of Notified Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) NFPA: National Fire Protection Association (USA) HMIS: Hazardous Materials Identification System (USA) VOC: Volatile Organic Compounds (USA, EU) 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 BEI: Biological Exposure Limit Flammable liquids 2: Flammable liquids – Category 2 Acute toxicity - oral 3: Acute toxicity - Category 3 Specific target organ toxicity (single exposure) 1: Specific target organ toxicity (single exposure) - Category 1 \*\* Data compared to the previous version altered.