

Printing date 02/09/2022

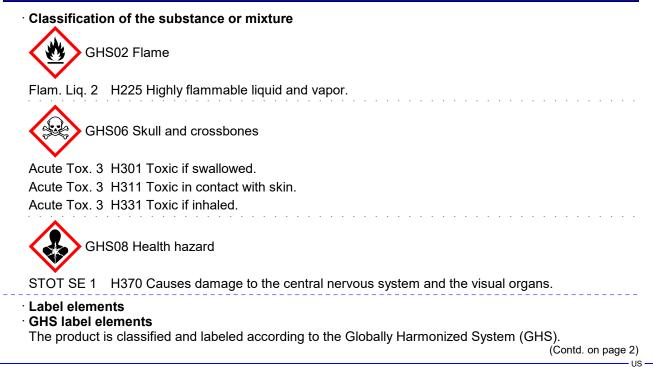
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1 Identification

- · Product identifier
- · Trade name: 7-Aminonimetazepam (CRM)
- · Article number: 19293
- **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



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0

HEALTH

FIRE

0 Reactivity = 0

Health = *0

Fire = 3

· HMIS-ratings (scale 0 - 4)

*0

3

REACTIVITY 0 Reactivity = 0

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Trade name: 7-Aminonimetazepam (CRM)

Hazard pictogr	contd. from page 1
GHS02 GHS0	D6 GHS08
Signal word Da	anger
Hazard-determ	ining components of labeling:
Methanol	
7-Aminonimetaz	zepam
Hazard stateme	ents
H225	Highly flammable liquid and vapor.
H301+H311+H3	331 Toxic if swallowed, in contact with skin or if inhaled.
H370	Causes damage to the central nervous system and the visual organs.
Precautionary	
P210	Keep away from heat/sparks/open flames/hot surfaces No smoking.
P240	Ground/bond container and receiving equipment.
P241	Use explosion-proof electrical/ventilating/lighting/equipment.
P242	Use only non-sparking tools.
P243	Take precautionary measures against 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.
P301+P310	If swallowed: Immediately call a poison center/doctor.
P321	Specific treatment (see on this label).
P330	Rinse mouth.
F3037F3017F3	53 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin wit water/shower.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P307+P311	IF exposed: Call a POISON CENTER or doctor/physician.
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 P501	Store locked up. Dispose of contents/container in accordance with local/regional/national/internationa
P301	
	regulations.
Classification	
NFPA ratings (scale U - 4)

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99.9%

0.1%

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

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
DTEO0 D04400000	

RTECS: PC1400000 CAS: 4959-16-4 7-Aminonimetazepam

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.
- Information for doctor:
- · Most important symptoms and effects, both acute and delayed

May cause anemia, cough, CNS depression, drowsiness, headache, heart damage, lassitude (weakness, exhaustion), liver damage, narcosis, reproductive effects, teratogenic effects. 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.
- 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.

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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, sawdu	ust).
Dispose contaminated material as waste according to item 13.	
Ensure adequate ventilation.	
· 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:	
67-56-1 Methanol	530 ppm
· PAC-2:	
67-56-1 Methanol	2,100 ppm
· PAC-3:	
67-56-1 Methanol	7200* ppm

7 Handling and storage

· Handling:

- **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:
- 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.

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:

The following constituent is the only constituent of the product which has a PEL, TLV or other recommended exposure limit.

At this time, the remaining constituent has no known exposure limits.

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	6-1 Methanol
PEL	Long-term value: 260 mg/m³, 200 ppm

- REL Short-term value: 325 mg/m³, 250 ppm Long-term value: 260 mg/m³, 200 ppm Skin
- TLV Short-term value: 250 ppm Long-term value: 200 ppm Skin; BEI

· Ingredients with biological limit values:

67-56-1 Methanol

- BEI 15 mg/L
 - Medium: urine Time: end of shift
 - Parameter: Methanol (background, nonspecific)

• 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.

Store protective clothing separately.

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. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

· 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 properties General Information · Appearance: Form: Liquid Color: Colorless · Odor: Alcohol-like · Structural Formula C16H15N3O · Molecular Weight 265.3 g/mol · Odor threshold: Not determined. · pH-value: Not determined. · Change in condition Melting point/Melting range: -98 °C (-144.4 °F) Boiling point/Boiling range: 64.7 °C (148.5 °F) · Flash point: 11 °C (51.8 °F) · Flammability (solid, gaseous): Not applicable. · Ignition temperature: 455 °C (851 °F) · Decomposition temperature: Not determined. · Auto igniting: Product is not selfigniting. • Danger of explosion: Product is not explosive. However, formation of explosive air/ vapor mixtures are possible. · Explosion limits: Lower: 5.5 Vol % Upper: 44 Vol % · Vapor pressure at 20 °C (68 °F): 128 hPa (96 mm Hg) 0.79 g/cm3 (6.59255 lbs/gal) · Density at 20 °C (68 °F): Relative density Not determined. · Vapor density Not determined. · Evaporation rate Not determined. · Solubility in / Miscibility with Water: Fully miscible. · Partition coefficient (n-octanol/water): Not determined. · Viscosity: **Dvnamic:** Not determined. **Kinematic:** Not determined. SOLUBILITY A 1 mg/ml solution in acetonitrile (Contd. on page 7)

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(Contd. from pag	e 6)
99.9 % 99.90 % 999.0 g/l / 8.34 lb/gal	
0.1 %	
No further relevant information available.	
	99.90 % 999.0 g/l / 8.34 lb/gal 0.1 %

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: reducing agents, carbon dioxide, carbon monoxide

11 Toxicological information

- · Information on toxicological effects
- · Acute toxicity:

Oral	LD50	100,000 mg/kg	
67-56-1 Methanol			
Oral	LDLO	143 mg/kg (hmn)	
	TDLO	5 ml/kg (rat)	
	LD50	5,600 mg/kg (rat)	
Dermal	LD50	15,800 mg/kg (rabbit)	
Inhalative	LC50/4 h	64,000 mg/m³ (rat)	
	LC50	61,100 mg/m³/134 m (mouse)	
Irritation of skin	Irritation	20 mg/24h (rabbit)	
	Irritation	(rabbit)	
	Irritation	5.63 mg/kg/exempt preparation (rabbit)	
Irritation of eyes	Irritation	40 mg (rabbit)	
	Intraperitoneal TDLO	5 mg/kg (rat)	
	Intraperitoneal LD50	10,765 mg/kg (mouse)	
	Subcutaneous LD50	143 mg/kg/human (mouse)	
	Data	20 mg/24h (rabbit)	

· 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

· 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.

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

UN-Number	
DOT, IMDG, IATA	UN1993
UN proper shipping name	
DOT	Flammable liquids, n.o.s. (Methanol)
IMDG	FLAMMABLE LIQUID, N.O.S. (METHANOL)

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·IATA	Flammable liquid, n.o.s. (METHANOL)
· Transport hazard class(es)	
· DOT	
· Class	3 Flammable liquids
· Label	3
· IMDG, IATA	
Class	3 Flammable liquids
· Label	3
· Packing group · DOT, IMDG, IATA	II
· Environmental hazards:	Not applicable.
 Special precautions for user Hazard identification number (Kemler code): EMS Number: Stowage Category 	Warning: Flammable liquids : 33 F-E, <u>S-E</u> B
· Stowage Category	В
 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: 5 L On cargo aircraft only: 60 L
·IMDG	
· Limited quantities (LQ)	1L
 Excepted quantities (EQ) 	Code: E2 Maximum net quantity per inner packaging: 30 ml
	Maximum net quantity per outer packaging: 50 ml
· IATA	
· 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 1993 FLAMMABLE LIQUID, N.O.S. (METHANOL 3, II

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fety, health and environmental regulations/legislation specific for the substance or mixture further relevant information available. ra ction 355 (extremely hazardous substances): ne of the ingredients is listed. ction 313 (Specific toxic chemical listings): .56-1 Methanol CA (Toxic Substances Control Act): .56-1 Methanol Zardous Air Pollutants .56-1 Methanol .56-1 .56-1 .56-1 .56-1 .56-1 .56-1 .56-1 .56-1 .56-1 .56-1 .56-1 .56-1 .56-1 .56-1 <t< th=""></t<>
ne of the ingredients is listed. ction 313 (Specific toxic chemical listings): 56-1 Methanol CA (Toxic Substances Control Act): 56-1 Methanol zardous Air Pollutants 56-1 Methanol position 65
ne of the ingredients is listed. ction 313 (Specific toxic chemical listings): 56-1 Methanol CA (Toxic Substances Control Act): 56-1 Methanol zardous Air Pollutants 56-1 Methanol position 65
56-1 Methanol CA (Toxic Substances Control Act):
CA (Toxic Substances Control Act): 56-1 Methanol zardous Air Pollutants 56-1 Methanol 56-1 Methanol 56-5 Methanol
56-1 Methanol ACTIV zardous Air Pollutants .56-1 Methanol 56-1 Methanol
zardous Air Pollutants 56-1 Methanol oposition 65
56-1 Methanol pposition 65
oposition 65
•
emicals known to cause cancer:
ne of the ingredients is listed.
emicals known to cause reproductive toxicity for females:
ne of the ingredients is listed.
emicals known to cause reproductive toxicity for males:
ne of the ingredients is listed.
emicals known to cause developmental toxicity:
56-1 Methanol
rcinogenic categories
A (Environmental Protection Agency)
ne of the ingredients is listed.
V (Threshold Limit Value)
ne of the ingredients is listed.
OSH-Ca (National Institute for Occupational Safety and Health)
ne of the ingredients is 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 02/09/2022 / -
- **Abbreviations and acronyms:** IMDG: International Maritime Code for Dangerous Goods DOT: US Department of Transportation

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IATA: International Air Transport Association	(10 /
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	
Flam. Liq. 2: Flammable liquids – Category 2	
Acute Tox. 3: Acute toxicity – Category 3	
STOT SE 1: Specific target organ toxicity (single exposure) – Category 1	
• * Data compared to the previous version altered.	
Data compared to the previous version altered.	
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