

Safety Data Sheet

acc. to OSHA HCS

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1 Identification · Product identifier · Trade name: Flualprazolam (CRM) • Synonym 8-chloro-6-(2-fluorophenyl)-1-methyl-4H-[1,2,4]triazolo[4,3-a][1,4]benzodiazepine · Other means of identification · Article number: 25577 · 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 GHS02 Flame Flammable liquids 2 H225 Highly flammable liquid and vapor. GHS06 Skull and crossbones Acute toxicity - oral 3 H301 Toxic if swallowed. Acute toxicity - dermal 3 H311 Toxic in contact with skin. Acute toxicity - inhalation 3 H331 Toxic if inhaled. GHS08 Health hazard Specific target organ toxicity (single exposure) 1 H370 Causes damage to the central nervous system and the visual organs. (Contd. on page 2)

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	(Contd. from page 1)
· Label elements	
GHS label eleme	
The product is cla • Hazard pictogra	assified and labeled according to the Globally Harmonized System (GHS). I ms
\wedge	
GHS02 GHS0	
 Signal word Dar 	
	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 Broccutionem o	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.
D0.40	No smoking.
P240	Ground / bond container and receiving equipment.
P241	Use explosion-proof [electrical/ventilating/lighting] equipment.
P242	Use non-sparking tools.
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 protection.
P301+P310	If swallowed: Immediately call a poison center/doctor.
P321	Specific treatment (see on this label).
P330	Rinse mouth.
P303+P361+P35	53 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with 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.
· Information per	taining to particular dangers for man and environment:
· Classification s	• •
NFPA ratings (s	uale u - 4)
Hea	alth = 2
	$e^{2} = 3$
	activity = 0
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99.9%

0.1%

· 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

· Other ingredients

28910-91-0 Flualprazolam

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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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 p PAC-2: 67-56-1 Methanol 2,100 p • PAC-3: 67-56-1 7200* p 67-56-1 Methanol 7200* p • Reference to other sections See Section 7 for information on safe handling. See Section 8 for information on personal protection equipment. Set Section 8 for information on personal protection equipment.	67-56-1During heating or in case of fire poisonous gases are produced. • Advice for firefighters	
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 p PAC-2: 67-56-1 Methanol 2,100 p PAC-3: 7200* p 67-56-1 Methanol 7200* p PAC-3: 7200* p 67-56-1 Methanol on safe handling. See Section 7 for information on safe handling. See Section 8 for information on personal protection equipment.	• Protective equipment: Mouth respiratory protective device.	
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67-56-1 Methanol 530 p • PAC-2: 67-56-1 Methanol 2,100 p • PAC-3: 67-56-1 Methanol 7200* p • Reference to other sections 580 p 7200* p • See Section 7 for information on safe handling. 580 p • See Section 8 for information on personal protection equipment. 530 p	Ensure adequate ventilation	
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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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	trol parameters
	ponents with limit values that require monitoring at the workplace: 6-1 Methanol
	Long-term value: 260 mg/m ³ , 200 ppm
	Short-term value: 325 mg/m³, 250 ppm
	Long-term value: 260 mg/m ³ , 200 ppm
	Skin
TLV	Short-term value: 250 ppm
	Long-term value: 200 ppm
	Skin; BEIc
Ingr	edients with biological limit values:
	6-1 Methanol
BEI	15 mg/L
	Medium: urine Time: end of shift
	Parameter: Methanol (background, nonspecific)
- Δhd	tional information: The lists that were valid during the creation were used as basis.
Gen Keej Imm	ropriate engineering controls No further data; see section 7. onal protective equipment: eral protective and hygienic measures: o away from foodstuffs, beverages and feed. ediately remove all soiled and contaminated clothing. h hands before breaks and at the end of work.
Gen Keep Imm Was Store Avoi Brea In ca	onal protective equipment: eral protective and hygienic measures: o away from foodstuffs, beverages and feed.
Gen Keep Imm Was Store Avoi Brea In ca	onal protective equipment: eral protective and hygienic measures: o away from foodstuffs, beverages and feed. ediately remove all soiled and contaminated clothing. h hands before breaks and at the end of work. e protective clothing separately. d contact with the eyes and skin. thing equipment: use of brief exposure or low pollution use respiratory filter device. In case of intensive or long sure use respiratory protective device that is independent of circulating air.
Gen Keej Imm Was Stord Avoi Brea In ca expo Prot	onal protective equipment: eral protective and hygienic measures: o away from foodstuffs, beverages and feed. ediately remove all soiled and contaminated clothing. h hands before breaks and at the end of work. a protective clothing separately. d contact with the eyes and skin. thing equipment: ise of brief exposure or low pollution use respiratory filter device. In case of intensive or long sure use respiratory protective device that is independent of circulating air. ection of hands: Protective gloves glove material has to be impermeable and resistant to the product/ the substance/ the preparation to missing tests no recommendation to the glove material can be given for the product/ the aration/ the chemical mixture.
Gen Keej Imm Was Stord Avoi Brea In ca expo Prot The Due prep Sele degr	onal protective equipment: eral protective and hygienic measures: o away from foodstuffs, beverages and feed. ediately remove all soiled and contaminated clothing. h hands before breaks and at the end of work. a protective clothing separately. d contact with the eyes and skin. thing equipment: ise of brief exposure or low pollution use respiratory filter device. In case of intensive or long sure use respiratory protective device that is independent of circulating air. ection of hands: Protective gloves glove material has to be impermeable and resistant to the product/ the substance/ the preparation to the glove material can be given for the product/ the substance/ the preparation.

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	C17H12CIFN4			
· Molecular Weight	326.8 g/mol			
· Storage Buffer				
· Odor threshold:	Not determined.			
Formulation	A 1 mg/ml solution in methanol			
• Melting point/Melting range:	-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)			
· Decomposition temperature:	Not determined.			
· pH-value:	Not determined.			
· Viscosity:	Not determined.			
· Kinematic:	Not determined.			
	Not determined.			
· Dynamic:	Not determined.			
· Solubility in / Miscibility with	Not determined.			
· 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 hea	lth			
and environment, and on safety.				
Ignition temperature:	Product is not selfigniting.			
 Danger of explosion: 	Product is not explosive. However, formation of			
	explosive air/vapor mixtures are possible.			
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 Solvent content: 	
 Organic solvents: 	99.9 %
VOC content:	99.90 %
	999.0 g/l / 8.34 lb/gal
 Solids content: 	0.1 %
Change in condition	
· 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: oxidizing agents
- Hazardous decomposition products: carbon dioxide, carbon monoxide

11 Toxicological information

- · Information on toxicological effects
- Acute toxicity:

· LD/LC50 values that are relevant for classification	ו:
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ATE (Acute Toxicity Estimate)			
Oral	LD50	100 mg/kg (rat)	
Dermal	LD50	100 mg/kg (rat) 300 mg/kg (rabbit)	
Inhalative	LC50/4 h	3.1 mg/l (rat)	

67-56-1 M	67-56-1 Methanol		
Oral	LD50	100.1 mg/kg (rat) (Expert judgment) Remerke: Classified according to Regulation (ELI) 1272/2008, Appen VI (Table	
		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	 3.1 mg/l (rat) (Expert judgment) Remarks: Classified according to Regulation (EU) 1272/2008, Annex VI (Table 3.1/3.2) Symptoms: Irritation symptoms in the respiratory tract. 	
[·] 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)	
DOT	
Class	3 Flammable liquids
Label	3, 6.1
IMDG	
Class	3 Flammable liquids
Label IATA	3/6.1
Class	3 Flammable liquids
Label	3 (6.1)
Packing group DOT, IMDG, IATA	Ш
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)	1L Code: E2
Excepted quantities (EQ)	Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
ΙΑΤΑ	
	(Contd. on page

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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.
 Special precautions for user 	Warning: Flammable liquids
 Hazard identification number (Kemler code): 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.

None of the ingredients is listed.	
Section 313 (Specific toxic chemical listings):	
67-56-1 Methanol	
TSCA (Toxic Substances Control Act):	
67-56-1 Methanol	ACTIN
Hazardous Air Pollutants	
67-56-1 Methanol	
Chemicals known to cause cancer:	
None of the ingredients is listed.	
Chemicals known to cause reproductive toxicity for female	s:
None of the ingredients is listed.	
Chemicals known to cause reproductive toxicity for males:	
None of the ingredients is listed.	
Chemicals known to cause developmental toxicity:	
67-56-1 Methanol	
Carcinogenic categories	
EPA (Environmental Protection Agency)	
None of the ingredients is listed.	
TLV (Threshold Limit Value)	
None of the ingredients is listed.	
NIOSH-Ca (National Institute for Occupational Safety and H	ealth)
None of the ingredients is listed.	

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	Other information
th co no th pi bo	Il chemicals may pose unknown hazards and should be used with caution. This SDS applies only the material as packaged. If this product is combined with other materials, deteriorates, or becom- ontaminated, it may pose hazards not mentioned in this SDS. Cayman Chemical Company assur- oresponsibility for incidental or consequential damages, including lost profits, arising from the us- nese data. It shall be the user's responsibility to develop proper methods of handling and perso- rotection based on the actual conditions of use. While this SDS is based on technical data judge e reliable, Cayman Chemical Company assumes no responsibility for the completeness or accurac- ne information contained herein.
	epartment issuing SDS: Environment protection department.
·D	ate of previous version 09/04/2024
·D	ate of preparation 02/27/2025
	bbreviations and acronyms:
	/DG: International Maritime Code for Dangerous Goods
	OT: US bepartment of Transportation
	NTA: International Air Transport Association
	INECS: European Inventory of Existing Commercial Chemical Substances
	LINCS: European List of Notified Chemical Substances
С	AS: Chemical Abstracts Service (division of the American Chemical Society)
N	FPA: National Fire Protection Association (USA)
	MIS: Hazardous Materials Identification System (USA)
	OC: Volatile Organic Compounds (USA, EU)
	C50: Lethal concentration, 50 percent
	D50: Lethal dose, 50 percent
	BT: Persistent, Bioaccumulative and Toxic
	PvB: very Persistent and very Bioaccumulative
	IOSH: National Institute for Occupational Safety
	SHA: Occupational Safety & Health LV: Threshold Limit Value
	EL: Permissible Exposure Limit EL: Recommended Exposure Limit
	El: Biological Exposure Limit
	lammable liquids 2: Flammable liquids – Category 2
	cute toxicity - oral 3: Acute toxicity – Category 3
	pecific target organ toxicity (single exposure) 1: Specific target organ toxicity (single exposure) – Category 1
	Data compared to the previous version altered.
	Data compared to the previous version altered.