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Safety Data Sheet acc. to OSHA HCS

Printing date 11/11/2022 Revision date 11/11/2022

1 Identification

· Product identifier

· Trade name: 5-Fluoropentylindole

· Article number: 15454

· 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.

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- · Label elements
- · GHS label elements

The product is classified and labeled according to the Globally Harmonized System (GHS).

Hazard pictograms







GHS02 GHS06 GHS0

- · Signal word Danger
- · Hazard-determining components of labeling:

Methanol

· Hazard statements

H225 Highly flammable liquid and vapor.

H301+H311+H331 Toxic if swallowed, in contact with skin or if inhaled.

H370 Causes damage to the central nervous system and the visual organs.

· Precautionary statements

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.

P303+P361+P353 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with

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 Store locked up.

P501 Dispose of contents/container in accordance with local/regional/national/international

regulations.

- Classification system:
- · NFPA ratings (scale 0 4)



Health = 0 Fire = 3 Reactivity = 0

· HMIS-ratings (scale 0 - 4)



Health = *0 Fire = 3 Reactivity = 0

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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 com	onents:
CAS: 67-56-1	Meth

Methanol

99.0%

RTECS: PC1400000

Other ingredients

1859218-30-6 5-Fluoropentylindole

1.0%

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.

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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 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: 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.

8 Exposure controls/personal protection

· Additional information about design of technical systems: No further data; see item 7.

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· Control parameters

· Components with limit values that require monitoring at the workplace:

67-56-1 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:

(Contd. from page 5)



Tightly sealed goggles

Information on basic physical and chemical properties General Information Appearance: Form: Color: According to product specification Odor: Alcohol-like Structural Formula Molecular Weight Odor threshold: Formulation PH-value: Not determined. Change in condition Melting point/Melting range: Boiling point/Boiling range: Boiling point/Boiling range: Highly flammable. Ignition temperature: Highly flammable. Auto igniting: Product is not selfigniting.	9 Physical and chemical prope	rtine
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Lower: 5.5 Vol % Upper: 44 Vol % • Vapor pressure at 20 °C (68 °F): 128 hPa (96 mm Hg) • Density at 20 °C (68 °F): 0.79 g/cm³ (6.59255 lbs/gal) • Relative density Not determined. • Vapor density Not determined. • Evaporation rate Not determined. • Solubility in / Miscibility with Water: Fully miscible.	· Explosion limits:	
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 Evaporation rate Not determined. Solubility in / Miscibility with Water: Fully miscible. 		
Solubility in / Miscibility with Water: Fully miscible.		
Water: Fully miscible.	Evaporation rate	NOT determined.
· · · · · · · · · · · · · · · · · · ·		Fully miscible
		*
Viagosity	· · · · · · · · · · · · · · · · · · ·	
· Viscosity: Dynamic: Not determined.		Not determined
Kinematic: Not determined.		

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SOLUBILITY	DMF: 25 mg/ml; DMSO: 25 mg/ml; Ethanol: 25 mg/ml; Ethanol:PBS (pH 7.2)(1:2): 0.3 mg/ml
Solvent content: Organic solvents: VOC content:	99.0 % 99.00 % 990.0 g/l / 8.26 lb/gal
Solids content:	1.0 %
· 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: reducing agents, oxidizing agents
- · Hazardous decomposition products: carbon monoxide, carbon dioxide

11 Toxicological information

- · Information on toxicological effects
- · Acute toxicity:

· LD/LC50 values that are relevant for classification:			
67-56-1 Methan	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)	

- · 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:

(Contd. from page 7)

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.

14 Transport information

- · UN-Number
- · DOT, IMDG, IATA UN1230
- · UN proper shipping name
- · DOT, IATA Methanol solution

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	NETUNIO
	METHANOL solution
Transport hazard class(es)	
DOT	
FLAMMABLE LIQUID TOXIC	
6	
	3 Flammable liquids
Label	3, 6.1
IMDG	
3	
Class	3 Flammable liquids
Label	3/6.1
IATA	
3	
Class	3 Flammable liquids
Label	3 (6.1)
Packing group	
, ,	II
	Not applicable.
	Warning: Flammable liquids
Hazard identification number (Kemler code): EMS Number:	536 F-E,S-D
Stowage Category	В
Stowage Code	SW2 Clear of living quarters.
Transport in bulk according to Annex II of	
	Not applicable.
Transport/Additional information:	
DOT	
	On passenger aircraft/rail: 1 L On cargo aircraft only: 60 L
	on daigo airdiait diffy. 00 E
IMDG Limited quantities (LQ)	1L
	Code: E2
	Maximum net quantity per inner packaging: 30 ml
	Maximum net quantity per outer packaging: 500 ml
IATA Remarks:	When cold in quantities of less than or equal to 4
	When sold in quantities of less than or equal to 1 m or 1 g, with an Excepted Quantity Code of
	E1, E2, E4, or E5, this item meets the De Minimis

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Quantities exemption, per IATA 2.6.10.
Therefore packaging does not have to be labeled as Dangerous Goods/Excepted Quantity.

UN "Model Regulation":
UN 1230 METHANOL SOLUTION, 3 (6.1), II

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):

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 ACTIVE

· Hazardous Air Pollutants

67-56-1 Methanol

- · Proposition 65
- · Chemicals known to cause cancer:

None of the ingredients is listed.

· Chemicals known to cause reproductive toxicity for females:

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 Health)

None 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.

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· Department issuing SDS: Environment protection department.

Contact: -

· Date of preparation / last revision 11/11/2022

· 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, ÉU)

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

US