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#### **1** Identification

- · Product identifier
- · Trade name: 5-fluoro PY-PINACA (CRM)
- · Synonym (1-(5-fluoropentyl)-1H-indazol-3-yl)(pyrrolidin-1-yl)methanone
- · Article number: 19801
- 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

Classification of the substance or mi	
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	

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	(Contd. from page 1)
· Label element	S
GHS label eler	ments
The product is	classified and labeled according to the Globally Harmonized System (GHS).
Hazard pictog	
GHS02 GHS	06 GHS08
· Signal word D	anger
-	nining components of labeling:
Methanol	mining components of labeling.
· Hazard statem	nents
H225	Highly flammable liquid and vapor.
	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 P321	If swallowed: Immediately call a poison center/doctor. Specific treatment (see on this label).
P330	Rinse mouth.
	353 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.
<ul> <li>Classification</li> <li>NFPA ratings</li> </ul>	
NI FA latings	(Scale 0 - 4)
H H	ealth = 2
	ire = 3
2 0 R	eactivity = 0
· UMIS ratings (	
· HMIS-ratings (	
	Health = *2
	Fire = 3
REACTIVITY 0 F	Reactivity = 0
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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

RTECS: PC1400000

Other ingredients

2365471-48-1 5-fluoro PY-PINACA

#### 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 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

Can release vapors that form explosive mixtures at temperatures at or above the flashpoint.

Container explosion may occur under fire conditions.

Emits toxic fumes under fire conditions.

Sensitive to static discharge.

Vapors can travel to a source of ignition and flash back.

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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Developed and extended and exte	
<b>Personal precautions, protective equipment and emergency procedures</b> 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, s	sawdust).
Dispose contaminated material as waste according to section 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
Handling and storage	
Handling:	
Handling: Precautions for safe handling Ensure good ventilation/exhaustion at the workplace. Open and handle receptacle with care.	
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### 8 Exposure controls/personal protection • Additional information about design of technical systems: No further data; see section 7. · Control parameters · Components with limit values that require monitoring at the workplace: 67-56-1 Methanol PEL Long-term value: 260 mg/m<sup>3</sup>, 200 ppm REL Short-term value: 325 mg/m<sup>3</sup>. 250 ppm Long-term value: 260 mg/m<sup>3</sup>, 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 guality 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: According to product specification · Odor: Alcohol-like · Structural Formula C17H22FN3O · Molecular Weight 303.4 g/mol · Odor threshold: Not determined. · Formulation A 1 mg/ml solution in methanol · 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: 9.7 °C (49.5 °F) · Flammability (solid, gaseous): Highly flammable. 455 °C (851 °F) · Auto igniting: · Decomposition temperature: Not determined. · Ignition temperature: Product is not selfigniting. Danger of explosion: Product is not explosive. However, formation of explosive air/ vapor mixtures are possible. · Explosion limits: 5.5 Vol % Lower: 44 Vol % Upper: · 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 at 20 °C (68 °F): 1000 g/l · Partition coefficient (n-octanol/water): Not determined. · Viscositv: **Dynamic:** Not determined. **Kinematic:** Not determined. (Contd. on page 7)

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99.9 % 99.90 % 999.0 g/l / 8.34 lb/gal
0.1 %
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:

	· Acute toxicity:				
	• LD/LC50 values that are relevant for classification:				
	ATE (Acute Toxicity Estimate)				
	Oral	LD50	100 mg/kg (rat)		
	Dermal	LD50	300 mg/kg (rabbit)		
	Inhalative	LC50/4 h	3.1 mg/l (rat)		
	67-56-1 Methanol				
Oral LD50 100.1 mg/kg (rat) (Expert judgment) Remarks: Classified according to Regulation (EU) 1272/2008, Anne 3.1/3.2) Symptoms: Nausea, Vomiting		(Expert judgment) Remarks: Classified according to Regulation (EU) 1272/2008, Annex VI (Table 3.1/3.2)			
	Dermal	LD50	300.1 mg/kg (rabbit)		

InhalativeLC50/4 h(Expert judgment)<br/>Remarks: Classified according to Regulation (EU) 1272/2008, Annex VI (Table<br/>3.1/3.2)InhalativeLC50/4 h3.1 mg/l (rat)<br/>(Expert judgment)

Remarks: Classified according to Regulation (EU) 1272/2008, Annex VI (Table 3.1/3.2) Symptoms: Irritation symptoms in the respiratory tract.

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

#### · 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	UN1230	
· UN proper shipping name		
DOT, IATA	Methanol solution	

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	(Contd. from page
IMDG	METHANOL solution
Transport hazard class(es)	
DOT	
TOXIC 3	
Class Label	3 Flammable liquids 3, 6.1
IMDG	
Class	3 Flammable liquids
Label	3/6.1
ΙΑΤΑ	
Class Label	3 Flammable liquids 3 (6.1)
Packing group DOT, IMDG, IATA	II
Environmental hazards:	Not applicable.
Special precautions for user	Warning: Flammable liquids
Hazard identification number (Kemler code): EMS Number:	336 F-E,S-D
Stowage Category	B
Stowage Code	SW2 Clear of living quarters.
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
Excepted quantities (EQ)	Code: E2
- · · ·	Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
ΙΑΤΑ	
Remarks:	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
	(Contd. on page

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## Safety Data Sheet acc. to OSHA HCS

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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):	
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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

· 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 08/03/2023	
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) - Catego	jory 1
* Data compared to the previous version altered.	
	u