

## Safety Data Sheet

acc. to OSHA HCS

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### **1** Identification · Product identifier Trade name: Zalepion-d4 (CRM) · Synonym N-[3-(3-cyanopyrazolo[1,5-a]pyrimidin-7-yl)phenyl-d4]-N-ethyl-acetamide · Other means of identification · Article number: 20412 · 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 Toxic if swallowed. Acute toxicity - oral 3 H301 Acute toxicity - dermal 3 H311 Toxic in contact with skin. Acute toxicity - inhalation 3 H331 Toxic if inhaled. GHS08 Health hazard Reproductive toxicity 2 H361-H362 Suspected of damaging fertility or the unborn child. May cause harm to breastfed children. (Contd. on page 2)

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#### Trade name: Zalepion-d4 (CRM) (Contd. from page 1) Specific target organ toxicity (single exposure) 1 H370 Causes damage to the central nervous system and the visual organs. · Label elements · GHS label elements The product is classified and labeled according to the Globally Harmonized System (GHS). · Hazard pictograms GHS02 GHS06 GHS08 · Signal word Danger · Hazard-determining components of labeling: Methanol Zaleplon-d4 Hazard statements H225 Highly flammable liquid and vapor. H301+H311+H331 Toxic if swallowed, in contact with skin or if inhaled. Suspected of damaging fertility or the unborn child. May cause harm to breast-fed H361-H362 children. H370 Causes damage to the central nervous system and the visual organs. Precautionary statements Obtain special instructions before use. P201 Do not handle until all safety precautions have been read and understood. P202 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. P210 No smoking. P240 Ground / bond container and receiving equipment. Use explosion-proof [electrical/ventilating/lighting] equipment. P241 Use non-sparking tools. P242 P243 Take action to prevent static discharge. P260 Do not breathe dusts or mists. P263 Avoid contact during pregnancy and /while nursing. Wash thoroughly after handling. P264 Do not eat, drink or smoke when using this product. P270 P271 Use only outdoors or in a well-ventilated area. Wear protective gloves/protective clothing/eye protection/face protection/hearing P280 protection. P301+P310 If swallowed: Immediately call a poison center/doctor. P321 Specific treatment (see on this label). Rinse mouth. P330 P303+P361+P353 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+P313 IF exposed or concerned: Get medical advice/attention. Call a poison center/doctor if you feel unwell. P312 Take off immediately all contaminated clothing and wash it before reuse. P361+P364 In case of fire: Use CO2, powder or water spray to extinguish. P370+P378 Store in a well-ventilated place. Keep container tightly closed. P403+P233 P403+P235 Store in a well-ventilated place. Keep cool. Store locked up. P405 P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

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#### Trade name: Zalepion-d4 (CRM)

<ul> <li>Information pertaining to particular dangers for man and environment:</li> <li>Classification system:</li> <li>NFPA ratings (scale 0 - 4)</li> </ul>	(Contd. from page 2)
Health = 2 Fire = 3 Reactivity = 0	
· HMIS-ratings (scale 0 - 4)	
HEALTH*2FIRE3Fire = 3REACTIVITYReactivity = 0	
<ul> <li>Other hazards</li> <li>Results of PBT and vPvB assessment</li> <li>PBT: Not applicable.</li> <li>vPvB: Not applicable.</li> <li>Classification according to (d)(1)(ii) of § 1910.1200</li> </ul>	
The SDS issuer does not object to the classifications provided by importers precursor products. • Hazards not otherwise classified	or manufacturers of
There are no adverse physical or health effects known that are not covered by the Hazard Communications Standard.	e hazard classes of the
3 Composition/information on ingredients	
<ul> <li>Chemical characterization: Mixtures</li> <li>Description: Mixture of the substances listed below with nonhazardous additions</li> </ul>	
· Dangerous components:	

· Dangerous components:		
CAS: 67-56-1 RTECS: PC1400000		99.9–100%
CAS: 1781887-91-9	Zaleplon-d4	0.1%

## **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.

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#### Trade name: Zalepion-d4 (CRM)

• 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.
   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:
   • PAC-2:
   • PAC-2:
   • PAC-2:

67-56-1 Methanol

PAC-3:

67-56-1 Methanol

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.

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2,100 ppm

7200\* ppm

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- **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 in one common stora 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

- · 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.

67-5	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; BEIc
Ingre	edients with biological limit values:
67-5	6-1 Methanol
	15 mg/L
	Medium: urine
	Time: end of shift
	Parameter: Methanol (background, nonspecific)
	Parameter: Methanol (background, nonspecific) tional information were used as basis.
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Addi Expo Appi Pers Gen Keep Immo Was Store Avoid Brea In ca expo	tional information: The lists that were valid during the creation were used as basis. osure controls 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. protective clothing separately. d contact with the eyes and skin. thing equipment:



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

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#### • 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.

### • Eye protection:



Tightly sealed goggles

## 9 Physical and chemical properties

Information on basic physical and chemical	al properties
· General Information	
<ul> <li>Physical state</li> </ul>	Liquid
· Color:	According to product specification
· Odor:	Alcohol-like
Structural Formula	C17H11D4N5O
<sup>·</sup> Molecular Weight	309.4 g/mol
· Storage Buffer	
· Odor threshold:	Not determined.
· Formulation	A 100 μg/ml or 1 mg/ml solution in methanol
<ul> <li>Melting point/Melting range:</li> </ul>	-98 °C (-144.4 °F)
<ul> <li>Boiling point/Boiling range:</li> </ul>	64.7 °C (148.5 °F)
· Flammability:	Highly flammable.
· Explosion limits:	
· Lower:	5.5 Vol %
· Upper:	44 Vol %
· Flash point:	9.7 °C (49.5 °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>	
<sup>.</sup> Water at 20 °C (68 °F):	1000 g/l
<ul> <li>Partition coefficient (n-octanol/water):</li> </ul>	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.
<ul> <li>Particle characteristics</li> </ul>	Not applicable.
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· Other information	
· Appearance:	
Form:	Liquid
· Important information on protection of	health
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.
· Solvent content:	
· Organic solvents:	99.9–100 %
· VOC content:	99.9–99.99 %
	999.9 g/l / 8.34 lb/gal
· Solids content:	0–0.1 %
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, reducing 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:

ATE (Acute Toxicity Estimate)			
Oral	LD50	100 mg/kg (rat)	
Dermal	LD50	300 mg/kg (rabbit)	
Inhalative	LC50/4 h	100 mg/kg (rat) 300 mg/kg (rabbit) 3.1 mg/l (rat)	

### 67 56 1 Mothanol

67-56-1	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
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Dermal		(Contd. from page
Dennai	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.
• Primary in • on the sk		
on the ey		
		ensitizing effects known.
		gical information:
		the following dangers according to internally approved calculation methods f
preparatio		and the second of the second o
Toxic		
	e effects I	No interactive effects between components are known.
Carcinog		
-	-	Agency for Research on Cancer)
None of th	e ingredie	nts is listed.
	-	cology Program)
-		nts is listed.
	<u> </u>	ional Safety & Health Administration)
	(Occuput	•
	e ingredie	nts is listed.
None of th	ie ingredie <b>e sources</b>	
None of th Alternativ	e sources	nts is listed. <b>5 for toxicological information</b> urces for toxicological information where used.
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## **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 · IMDG	Methanol METHANOL	
· Transport hazard class(es)		
DOT		
RAMARIE LOUD 3		
Class	3 Flammable liquids	
· Label · IMDG	3, 6.1	
Class	3 Flammable liquids	
· Label	3/6.1	
· Class	3 Flammable liquids	
· Label	3 (6.1)	
· Packing group · DOT, IMDG, IATA	II	
· Environmental hazards:	Not applicable.	
<ul> <li>Transport in bulk according to Annex I MARPOL73/78 and the IBC Code</li> </ul>	l of Not applicable.	

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· 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
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.

· 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

· 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 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

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· 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.

· Department issuing SDS: Environment protection department.

· Contact: -

• Date of previous version 04/04/2022

- Date of preparation 01/20/2025
- 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
- Reproductive toxicity 2: Reproductive 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.

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