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1 Identification

- · Product identifier
- Trade name: <u>U-47700-d6 (CRM)</u>
- · Article number: 19220
- **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

LICOF Likebby flammer able lieuwid an alwan an
H225 Highly flammable liquid and vapor.
H301 Toxic if swallowed.
H311 Toxic in contact with skin.
H331 Toxic if inhaled.

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	(Contd. from page 1)
· Label element	S
GHS label eler	
	classified and labeled according to the Globally Harmonized System (GHS).
 Hazard pictog 	rams
\wedge	
GHS02 GHS	506 GHS08
C iana al assand D	
• Signal word D	-
• Hazard-detern Methanol	nining components of labeling:
· Hazard statem	oonte
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	If swallowed: Immediately call a poison center/doctor.
P321 P330	Specific treatment (see on this label). Rinse mouth.
	353 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with
1 303 1 301 1 3	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 NFPA ratings 	
NI FA latings	(Scale 0 - 4)
H	ealth = 0
	ire = 3
	eactivity = 0
· HMIS-ratings ((scale 0 - 4)
	Health = *0
REACTIVITY 0	Reactivity = 0
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(Contd. from page 2)

99.9%

0.01%

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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

U-47700-d6

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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Wear protective equipment. Keep unprotected persons away. Environmental precations: 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 8 for information on personal protection equipment. See Section 8 for information on personal protection equipment. See Section 8 for information on personal protection equipment. See Section 8 for information on personal protection equipment. See Section 8 for information on personal protection equipment. See Section 8 for information PAC-1: 67-56-1 Methanol 530 ppm PAC-2: 67-56-1 Methanol 7200* ppm PAC-3: 67-56-1 Methanol 7200* ppm Pareautions for safe handling Ensure good ventilation/exhaustion at the workplace. Open and handle receptacle with care. Precautions do sources away - Do not smoke. Protect aga	 Personal precautions, protective equipment and emergency Mount respiratory protective device. 	procedures
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• Additional information about design of technical systems: No further data; see item 7. (Contd. on page 5)

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to be observed.

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Trade name: U-47700-d6 (CRM)

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FEL Long-term value: 260 mg/m³, 200 ppm KEL Long-term value: 250 mg/m³, 200 ppm Skin Skin V Short-term value: 250 ppm Long-term value: 200 ppm Skin Skin Bit Strip Skin Parameter Medium: urine Time: end of shift Parameter: Methanol (background, nonspecific) Validitional information: The lists that were valid during the creation were used as basis. Exposure controls Personal protective equipment: Geep away from foodstuffs, beverages and feed. mmediately remove all solied and contaminated clothing. Vash hands before breaks and at the end of work. Store protective clothing separately. void contact with the eyes and skin. Breathing equipment: n case of brief exposure or low pollution use respiratory filter device. In case of intensive or long exposure use respiratory protective device that is independent of circulating air. Protective gloves The glove material has to be impermeable and resistant to the product/ the substance/ the preparation four separation // the chemical mixture. Selection of the glove material on consideration of the penetration times, rates of diffusion and tegradation Material of gloves </th <th></th> <th>ponents with limit values that require monitoring at the workplace: 6-1 Methanol</th>		ponents with limit values that require monitoring at the workplace: 6-1 Methanol
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Trade name: U-47700-d6 (CRM)

• 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 C16H16D6Cl2N2O · Molecular Weight 335.3 g/mol · Odor threshold: Not determined. · Formulation A 100 µg/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: 11 °C (51.8 °F) · Flammability (solid, gaseous): Highly flammable. 455 °C (851 °F) · Ignition temperature: 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: 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: Fully miscible. · Partition coefficient (n-octanol/water): Not determined. · Viscositv: **Dynamic:** Not determined. **Kinematic:** Not determined. (Contd. on page 7)



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 Solvent content: Organic solvents: VOC content: 	99.9 % 99.90 % 999.0 g/l / 8.34 lb/gal
Solids content:	0.1 %
· 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.

• Additional toxicological information:

The product shows the following dangers according to internally approved calculation methods for preparations:

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Trade name: U-47700-d6 (CRM)

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	
IMDĠ	METHANOL solution	

-US

Safety Data Sheet acc. to OSHA HCS

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Trade name: U-47700-d6 (CRM)

	(Contd. from page 8
· Transport hazard class(es)	
· DOT	
RAMABLE LOUIS 3 6	
· Class · Label	3 Flammable liquids 3, 6.1
·IMDG	
· Class · Label	3 Flammable liquids 3/6.1
·IATA	
· Class · Label	3 Flammable liquids 3 (6.1)
· Packing group · DOT, IMDG, IATA	II
· Environmental hazards:	Not applicable.
 Special precautions for user Hazard identification number (Kemler code): EMS Number: Stowage Category Stowage Code 	Warning: Flammable liquids 336 F-E,S-D B 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) Excepted quantities (EQ) 	1L Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 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 Minimis Quantities exemption, per IATA 2.6.10.
	(Contd. on page 1

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Trade name: U-47700-d6 (CRM)

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	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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Trade name: U-47700-d6 (CRM)

(Cont	d. from page 10)
Department issuing SDS: Environment protection department.	
Contact: -	
Date of preparation / last revision 10/11/2022	
Abbreviations and acronyms:	
MDG: International Maritime Code for Dangerous Goods	
DOT: US Department of Transportation	
ATA: 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)	
/OC: Volatile Organic Compounds (USA, EU)	
_C50: Lethal concentration, 50 percent	
LD50: Lethal dose, 50 percent	
PBT: Persistent, Bioaccumulative and Toxic	
/PvB: very Persistent and very Bioaccumulative	
NOSH: National Institute for Occupational Safety	
DSHA: Occupational Safety & Health	
LV: 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