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#### **1** Identification

- · Product identifier
- Trade name: FAB-144
- · Article number: 15155
- **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

· Classificatio	on of the substance or mixture
GH	IS02 Flame
Flam. Liq. 2	H225 Highly flammable liquid and vapor.
GH	IS06 Skull and crossbones
Acute Tox. 3	B H301 Toxic if swallowed.
Acute Tox. 3	B H311 Toxic in contact with skin.
Acute Tox. 3	B H331 Toxic if inhaled.
GH	IS08 Health hazard
STOT SE 1	H370 Causes damage to the central nervous system and the visual organs.
· Label eleme · GHS label e	
	is classified and labeled according to the Globally Harmonized System (GHS).
·	(Contd. on page 2

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FIRE3Fire = 3REACTIVITY 0Reactivity = 0

Hazard pictogr	ams (Contd. from page 1
GHS02 GHS0	
Signal word Da	-
<b>Hazard-determ</b> Methanol	ining components of labeling:
Hazard stateme	ents
H225	Highly flammable liquid and vapor.
H301+H311+H3	31 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	Specific treatment (see on this label).
P330	Rinse mouth.
P303+P361+P3	53 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/internationa
Classification	regulations.
Classification s	
He He	alth = 0
Fir	e = 3
UURe	activity = 0
▼ ∨	
HMIS-ratings (s	scale 0 - 4)

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99.0%

1.0%

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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 components:
- CAS: 67-56-1 Methanol
- RTECS: PC1400000
- Other ingredients

FAB-144

#### **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
<ul> <li>• Personal precautions, protective equipment and emergency procedures Mount respiratory protective device. Wear protective equipment. Keep unprotected persons away.</li> <li>• Environmental precautions: Dilute with plenty of water. Do not allow to enter sewers/ surface or ground water.</li> <li>• 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.</li> <li>• Reference to other sections See Section 7 for information on safe handling. See Section 8 for information on personal protection equipment.</li> </ul>
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
<ul> <li>7 Handling and storage</li> <li>Handling:</li> <li>Precautions for safe handling Ensure good ventilation/exhaustion at the workplace. Open and handle receptacle with care. Prevent formation of aerosols.</li> <li>Information about protection against explosions and fires: Keep ignition sources away - Do not smoke. Protect against electrostatic charges. Keep respiratory protective device available.</li> <li>Conditions for safe storage, including any incompatibilities</li> </ul>
<ul> <li>Storage:</li> <li>Requirements to be met by storerooms and receptacles: Store in a cool location.</li> <li>Information about storage in one common storage facility: Not required.</li> <li>Further information about storage conditions: Keep receptacle tightly sealed.</li> <li>Store in cool, dry conditions in well sealed receptacles.</li> <li>Specific end use(s) No further relevant information available.</li> </ul>
8 Exposure controls/personal protection

• Additional information about design of technical systems: No further data; see item 7. (Contd. on page 5)

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· Con	trol parameters
· Con	ponents with limit values that require monitoring at the workplace:
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; BEI
· Ingr	edients with biological limit values:
67-5	6-1 Methanol
BEI	15 mg/L
	Medium: urine Time: end of shift
	Parameter: Methanol (background, nonspecific)
· Add	itional information: The lists that were valid during the creation were used as basis.
Pers Gen Keep Imm Was Stor Avoi Brea In ca expo	<pre>osure controls conal protective equipment: eral protective and hygienic measures: o away from foodstuffs, beverages and feed. ediately remove all soiled and contaminated clothing. th hands before breaks and at the end of work. e protective clothing separately. d contact with the eyes and skin. athing equipment: ase of brief exposure or low pollution use respiratory filter device. In case of intensive or longer osure use respiratory protective device that is independent of circulating air. ection of hands: Protective gloves</pre>
Due prep Sele degr • <b>Mat</b> e The qual subs be c	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. ection of the glove material on consideration of the penetration times, rates of diffusion and the adation erial of gloves selection of the suitable gloves does not only depend on the material, but also on further marks of ity and varies from manufacturer to manufacturer. As the product is a preparation of several stances, the resistance of the glove material can not be calculated in advance and has therefore to hecked 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

Appearance:       Form:       Liquid         Form:       Color!       Colorless         Odor:       Alcohol-like         Structural Formula       C20H27FN2O         Molecular Weight       330.4 g/mol         Odor threshold:       Not determined.         Formulation       A solution in methanol         pH-value:       Not determined.         Change in condition       -98 °C (-144.4 °F)         Boiling point/Melting range:       -98 °C (-148.5 °F)         Flash point:       11 °C (51.8 °F)         Flash point:       11 °C (51.8 °F)         Flash point:       11 °C (51.8 °F)         Flammability (solid, gaseous):       Not applicable.         Ignition temperature:       455 °C (851 °F)         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:       Liquid         Lower:       5.5 Vol %         Upper:       44 Vol %	General Information         Appearance:         Form:       Liquid         Color:       Colorless         Odor:       Alcohol-like         Structural Formula       C20H27FN2O         Molecular Weight       330.4 g/mol         Odor threshold:       Not determined.         Formulation       A solution in methanol         PH-value:       Not determined.         Change in condition       Melting point/Melting range:         Boiling 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)         Flash point:       11 °C (51.8 °F)         Flash point:       11 °C (51.8 °F)         Decomposition temperature:       Not determined.         Auto igniting:       Product is not selfigniting.         Decomposition temperature:       Not determined.         Auto igniting:       Product is not explosive. However, formation of explosive ai vapor mixtures are possible.         Explosion limits:       Lower:       5.5 Vol %         Upper:       44 Vol %         Vapor pressure at 20 °C (68 °F):       0.79 g/cm³ (6.59255 lbs/gal)         Relative density       Not determined.         Vapor de	Physical and chemical properti	es
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Odor threshold:       Not determined.         Formulation       A solution in methanol         PH-value:       Not determined.         Change in condition       -98 °C (-144.4 °F)         Boiling point/Melting range:       -98 °C (-144.5 °F)         Flash point:       11 °C (51.8 °F)         * Flash point:       11 °C (51.8 °F)         * Flamability (solid, gaseous):       Not applicable.         Ignition temperature:       455 °C (851 °F)         • 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:       Lower:         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.         • Solubility in / Miscibility with       Water:         • Partition coefficient (n-octanol/water):       Not determined.         • Viscosity:       Dynamic:       Not determined.	Odor threshold:       Not determined.         Formulation       A solution in methanol         PH-value:       Not determined.         Change in condition       -98 °C (-144.4 °F)         Boiling point/Boiling range:       64.7 °C (148.5 °F)         Flash point:       11 °C (51.8 °F)         Flamability (solid, gaseous):       Not applicable.         Ignition temperature:       455 °C (851 °F)         Decomposition temperature:       Not determined.         Auto igniting:       Product is not selfigniting.         Danger of explosion:       Product is not explosive. However, formation of explosive ai vapor mixtures are possible.         Explosion limits:       Lower:         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.         Solubility in / Miscibility with       Water:         Water:       Fully miscible.         Partition coefficient (n-octanol/water): Not determined.         Viscosity:       Dynamic:         Dynamic:       Not determined.         Viscosity:	· Structural Formula	C20H27FN2O
FormulationA solution in methanolpH-value:Not determined.Change in condition Melting point/Melting range:-98 °C (-144.4 °F) 64.7 °C (148.5 °F)Boiling point/Boiling range:64.7 °C (148.5 °F)Flash point:11 °C (51.8 °F)Flammability (solid, gaseous):Not applicable.Ignition temperature:455 °C (851 °F)Decomposition temperature:Not determined.Auto igniting:Product is not selfigniting.Danger of explosion:Product is not explosive. However, formation of explosive ail vapor mixtures are possible.Explosion limits: Lower: Upper:5.5 Vol % 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 Vapor densityNot determined.Vapor density Vapor densityNot determined.Solubility in / Miscibility with Water:Fully miscible.Partition coefficient (n-octanol/water): Not determined.Yiscosity: Dynamic:Viscosity: Dynamic:Not determined.	FormulationA solution in methanolpH-value:Not determined.Change in condition Melting point/Melting range: 64.7 °C (148.5 °F)Flash point:11 °C (51.8 °F)Flash point:11 °C (51.8 °F)Flammability (solid, gaseous):Not applicable.Ignition temperature:455 °C (851 °F)Decomposition temperature:Not determined.Auto igniting:Product is not selfigniting.Danger of explosion:Product is not selfigniting.Explosion limits: Lower: Upper:5.5 Vol % 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 Vapor densityNot determined.Solubility in / Miscibility with Water:Fully miscible.Partition coefficient (n-octanol/water): Not determined.Not determined.Viscosity: Dynamic: Kinematic:Not determined.Not determined.Not determined.	<sup>.</sup> Molecular Weight	330.4 g/mol
pH-value:       Not determined.         Change in condition Melting point/Melting range:       -98 °C (-144.4 °F) 64.7 °C (148.5 °F)         Flash point:       11 °C (51.8 °F)         * Flash point:       11 °C (51.8 °F)         * Flammability (solid, gaseous):       Not applicable.         Ignition temperature:       455 °C (851 °F)         • 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:       Lower:         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.         Vapor density       Not determined.         Solubility in / Miscibility with water:       Fully miscible.         * Partition coefficient (n-octanol/water): Not determined.       *         * Viscosity:       Dynamic:       Not determined.	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)         Flash point:       11 °C (51.8 °F)         Flammability (solid, gaseous):       Not applicable.         Ignition temperature:       455 °C (851 °F)         Decomposition temperature:       Not determined.         Auto igniting:       Product is not selfigniting.         Danger of explosion:       Product is not explosive. However, formation of explosive ai vapor mixtures are possible.         Explosion limits:       Lower:         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.         Vapor density       Not determined.         Solubility in / Miscibility with Water:       Fully miscible.         Partition coefficient (n-octanol/water): Not determined.       Viscosity:         Dynamic:       Not determined.         Not determined.       Not determined.	· Odor threshold:	Not determined.
<ul> <li>Change in condition Melting point/Melting range: -98 °C (-144.4 °F) Boiling point/Boiling range: 64.7 °C (148.5 °F)</li> <li>Flash point: 11 °C (51.8 °F)</li> <li>Flammability (solid, gaseous): Not applicable.</li> <li>Ignition temperature: 455 °C (851 °F)</li> <li>Decomposition temperature: Not determined.</li> <li>Auto igniting: Product is not selfigniting.</li> <li>Danger of explosion: Product is not explosive. However, formation of explosive ail vapor mixtures are possible.</li> <li>Explosion limits: Lower: 5.5 Vol % Upper: 44 Vol %</li> <li>Vapor pressure at 20 °C (68 °F): 128 hPa (96 mm Hg)</li> <li>Density at 20 °C (68 °F): 0.79 g/cm³ (6.59255 lbs/gal) Relative density Not determined.</li> <li>Solubility in / Miscibility with Water: Fully miscible.</li> <li>Partition coefficient (n-octanol/water): Not determined.</li> <li>Viscosity: Dynamic: Not determined.</li> </ul>	Change in condition       -98 °C (-144.4 °F)         Boiling point/Boiling range:       64.7 °C (148.5 °F)         *       Flash point:       11 °C (51.8 °F)         *       Flash point:       11 °C (51.8 °F)         *       Flash point:       11 °C (51.8 °F)         *       Flammability (solid, gaseous):       Not applicable.         *       Ignition temperature:       455 °C (851 °F)         Decomposition temperature:       Not determined.         •       Auto igniting:       Product is not selfigniting.         •       Danger of explosion:       Product is not explosive. However, formation of explosive ai vapor mixtures are possible.         •       Explosion limits:       Lower:       5.5 Vol %         Lower:       5.5 Vol %       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.         •       Vapor density       Not determined.         •       Vapor density       Not determined.         •       Solubility in / Miscibility with with water:       Fully miscible.         •	· Formulation	A solution in methanol
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):       Not applicable.         • Ignition temperature:       455 °C (851 °F)         • 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:       Lower:         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.         • Vapor density       Not determined.         • Solubility in / Miscibility with       Fully miscible.         • Partition coefficient (n-octanol/water): Not determined.       • Viscosity:         Dynamic:       Not determined.	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):       Not applicable.         Ignition temperature:       455 °C (851 °F)         • Decomposition temperature:       Not determined.         • Auto igniting:       Product is not selfigniting.         • Danger of explosion:       Product is not explosive. However, formation of explosive ai vapor mixtures are possible.         • Explosion limits:       Lower:         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.         • Vapor density       Not determined.         • Solubility in / Miscibility with       Water:         • Fully miscible.       Fully miscible.         • Partition coefficient (n-octanol/water): Not determined.         • Viscosity:       Dynamic:         Dynamic:       Not determined.         Not determined.       Not determined.	· pH-value:	Not determined.
Boiling point/Boiling range:       64.7 °C (148.5 °F)         Flash point:       11 °C (51.8 °F)         Flammability (solid, gaseous):       Not applicable.         Ignition temperature:       455 °C (851 °F)         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:       Lower:         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.         Solubility in / Miscibility with       Water:         Water:       Fully miscible.         Partition coefficient (n-octanol/water): Not determined.         Viscosity:       Dynamic:         Dynamic:       Not determined.	Boiling point/Boiling range:       64.7 °C (148.5 °F)         • Flash point:       11 °C (51.8 °F)         • Flammability (solid, gaseous):       Not applicable.         • Ignition temperature:       455 °C (851 °F)         • Decomposition temperature:       Not determined.         • Auto igniting:       Product is not selfigniting.         • Danger of explosion:       Product is not explosive. However, formation of explosive ai vapor mixtures are possible.         • Explosion limits:       Lower:         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.         • Solubility in / Miscibility with       Fully miscible.         • Partition coefficient (n-octanol/water): Not determined.       •         • Viscosity:       Dynamic:       Not determined.         • Viscosity:       Dynamic:       Not determined.	· Change in condition	
Flash point:       11 °C (51.8 °F)         Flammability (solid, gaseous):       Not applicable.         Ignition temperature:       455 °C (851 °F)         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:       Lower:         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.         Solubility in / Miscibility with       Water:         Vater:       Fully miscible.         Partition coefficient (n-octanol/water): Not determined.         Viscosity:       Dynamic:         Dynamic:       Not determined.	Flash point:       11 °C (51.8 °F)         Flammability (solid, gaseous):       Not applicable.         Ignition temperature:       455 °C (851 °F)         Decomposition temperature:       Not determined.         Auto igniting:       Product is not selfigniting.         Danger of explosion:       Product is not explosive. However, formation of explosive ai vapor mixtures are possible.         Explosion limits:       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.         Vapor density       Not determined.         Solubility in / Miscibility with Water:       Fully miscible.         Partition coefficient (n-octanol/water): Not determined.       Viscosity:         Dynamic:       Not determined.         Viscosity:       Dynamic:         Dynamic:       Not determined.         Not determined.       Not determined.		
Flammability (solid, gaseous):       Not applicable.         Ignition temperature:       455 °C (851 °F)         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:       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.         Vator:       Fully miscible.         Partition coefficient (n-octanol/water): Not determined.         Viscosity:       Dynamic:         Dynamic:       Not determined.	Flammability (solid, gaseous):       Not applicable.         Ignition temperature:       455 °C (851 °F)         Decomposition temperature:       Not determined.         Auto igniting:       Product is not selfigniting.         Danger of explosion:       Product is not explosive. However, formation of explosive ai vapor mixtures are possible.         Explosion limits:       Lower:       5.5 Vol %         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.         Solubility in / Miscibility with       Water:         Water:       Fully miscible.         Partition coefficient (n-octanol/water):       Not determined.         Viscosity:       Dynamic:         Dynamic:       Not determined.         Not determined.       Not determined.	Boiling point/Boiling range:	64.7 °C (148.5 °F)
Ignition temperature:       455 °C (851 °F)         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:       Lower:         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.         Vapor density       Not determined.         Vaporation rate       Not determined.         Solubility in / Miscibility with       Fully miscible.         Partition coefficient (n-octanol/water): Not determined.       Viscosity:         Dynamic:       Not determined.	Ignition temperature:       455 °C (851 °F)         Decomposition temperature:       Not determined.         Auto igniting:       Product is not selfigniting.         Danger of explosion:       Product is not explosive. However, formation of explosive ai vapor mixtures are possible.         Explosion limits:       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.         Solubility in / Miscibility with       Water:         Vater:       Fully miscible.         Partition coefficient (n-octanol/water): Not determined.         Viscosity:       Dynamic:         Dynamic:       Not determined.         Not determined.	· Flash point:	11 °C (51.8 °F)
Decomposition temperature:       Not determined.         Auto igniting:       Product is not selfigniting.         Auto igniting:       Product is not explosive. However, formation of explosive air vapor mixtures are possible.         Danger of explosion:       Product is not explosive. However, formation of explosive air vapor mixtures are possible.         Explosion limits:       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.         Vapor density       Not determined.         Solubility in / Miscibility with       Water:         Fully miscible.       Fully miscible.         Partition coefficient (n-octanol/water): Not determined.         Viscosity:       Dynamic:         Dynamic:       Not determined.	Decomposition temperature:       Not determined.         Auto igniting:       Product is not selfigniting.         Danger of explosion:       Product is not explosive. However, formation of explosive ai vapor mixtures are possible.         Explosion limits:       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.         Solubility in / Miscibility with       Not determined.         Water:       Fully miscible.         Partition coefficient (n-octanol/water): Not determined.         Viscosity:       Dynamic:         Dynamic:       Not determined.         Not determined.	· Flammability (solid, gaseous):	Not applicable.
Auto igniting:       Product is not selfigniting.         Danger of explosion:       Product is not explosive. However, formation of explosive air vapor mixtures are possible.         Explosion limits:	Auto igniting:       Product is not selfigniting.         Danger of explosion:       Product is not explosive. However, formation of explosive ai vapor mixtures are possible.         Explosion limits:       Product is not explosive. However, formation of explosive ai vapor mixtures are possible.         Explosion limits:       5.5 Vol %         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.         Vapor density       Not determined.         Solubility in / Miscibility with Water:       Fully miscible.         Partition coefficient (n-octanol/water):       Not determined.         Viscosity:       Dynamic:       Not determined.         Mot determined.       Not determined.	· Ignition temperature:	455 °C (851 °F)
Danger of explosion:       Product is not explosive. However, formation of explosive air vapor mixtures are possible.         Explosion limits:       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.         Vapor density       Not determined.         Solubility in / Miscibility with Water:       Fully miscible.         Partition coefficient (n-octanol/water): Not determined.       Viscosity:         Dynamic:       Not determined.	Danger of explosion:       Product is not explosive. However, formation of explosive ai vapor mixtures are possible.         Explosion limits:       Lower:       5.5 Vol %         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.         · Vapor density       Not determined.         · Vapor ate       Not determined.         · Vaporation rate       Not determined.         · Solubility in / Miscibility with       Fully miscible.         · Partition coefficient (n-octanol/water): Not determined.       Viscosity:         Dynamic:       Not determined.         · Viscosity:       Not determined.	· Decomposition temperature:	Not determined.
• Explosion limits:       5.5 Vol %         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.         • Viscosity:       Fully miscible.         • Partition coefficient (n-octanol/water): Not determined.       Viscosity:         Dynamic:       Not determined.	Explosion limits:       5.5 Vol %         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.         Vapor density       Not determined.         Solubility in / Miscibility with       Wot determined.         Vater:       Fully miscible.         Partition coefficient (n-octanol/water): Not determined.       Viscosity:         Dynamic:       Not determined.         Viscosity:       Not determined.         Viscosity:       Not determined.         Not determined.       Not determined.	· Auto igniting:	Product is not selfigniting.
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 densityNot determined.Vapor densityNot determined.Vapor densityNot determined.Solubility in / Miscibility with Water:Fully miscible.Partition coefficient (n-octanol/water): Not determined.Not determined.Viscosity: Dynamic:Not determined.	Lower:5.5 Vol % 44 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 densityNot determined.Vapor densityNot determined.Vapor densityNot determined.Vapor densityNot determined.Evaporation rateNot determined.Solubility in / Miscibility with Water:Fully miscible.Partition coefficient (n-octanol/water):Not determined.Viscosity: Dynamic: Kinematic:Not determined.	<sup>.</sup> Danger of explosion:	Product is not explosive. However, formation of explosive air vapor mixtures are possible.
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.         · Viscosity:       Fully miscible.         · Viscosity:       Not determined.         · Viscosity:       Not determined.         · Viscosity:       Not determined.	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.         • Vapor density       Not determined.         • Solubility in / Miscibility with Water:       Fully miscible.         • Partition coefficient (n-octanol/water): Not determined.       •         • Viscosity:       Not determined.         • Upper:       Not determined.         • Viscosity:       Not determined.	· Explosion limits:	
· 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.         · Vapor density       Not determined.         · Solubility in / Miscibility with Water:       Fully miscible.         · Partition coefficient (n-octanol/water): Not determined.       · Viscosity: Dynamic:	· 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.       ·         · Viscosity: Dynamic: Kinematic:       Not determined.	Lower:	5.5 Vol %
Density at 20 °C (68 °F):       0.79 g/cm³ (6.59255 lbs/gal)         Relative density       Not determined.         Vapor density       Not determined.         Vapor density       Not determined.         Solubility in / Miscibility with Water:       Fully miscible.         Partition coefficient (n-octanol/water): Not determined.       Vot determined.         Viscosity:       Not determined.         Viscosity:       Not determined.	Density at 20 °C (68 °F):       0.79 g/cm³ (6.59255 lbs/gal)         Relative density       Not determined.         Vapor density       Not determined.         Vapor density       Not determined.         Solubility in / Miscibility with Water:       Fully miscible.         Partition coefficient (n-octanol/water):       Not determined.         Viscosity:       Not determined.         Dynamic:       Not determined.         Not determined.       Not determined.	Upper:	44 Vol %
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.         Viscosity:       Not determined.         Dynamic:       Not determined.	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.         Viscosity:       Not determined.         Dynamic:       Not determined.         Kinematic:       Not determined.	· Vapor pressure at 20 °C (68 °F):	128 hPa (96 mm Hg)
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.         Viscosity:       Not determined.         Dynamic:       Not determined.	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.         Viscosity:       Not determined.         Dynamic:       Not determined.         Kinematic:       Not determined.	Density at 20 °C (68 °F)	
<ul> <li>Vapor density Not determined.</li> <li>Evaporation rate Not determined.</li> <li>Solubility in / Miscibility with Water: Fully miscible.</li> <li>Partition coefficient (n-octanol/water): Not determined.</li> <li>Viscosity: Dynamic: Not determined.</li> </ul>	Vapor density       Not determined.         Evaporation rate       Not determined.         Solubility in / Miscibility with Water:       Fully miscible.         Partition coefficient (n-octanol/water):       Not determined.         Viscosity:       Dynamic:         Dynamic:       Not determined.         Kinematic:       Not determined.		
• Evaporation rate       Not determined.         • Solubility in / Miscibility with       Fully miscible.         • Water:       Fully miscible.         • Partition coefficient (n-octanol/water): Not determined.         • Viscosity:       Not determined.         • Dynamic:       Not determined.	• Evaporation rate       Not determined.         • Solubility in / Miscibility with Water:       Fully miscible.         • Partition coefficient (n-octanol/water): Not determined.         • Viscosity:       Not determined.         • Uncompared by the matrix       Not determined.         • Viscosity:       Not determined.         • Viscosity:       Not determined.		
Solubility in / Miscibility with Water:       Fully miscible.         Partition coefficient (n-octanol/water): Not determined.         Viscosity:       Not determined.         Dynamic:       Not determined.	Solubility in / Miscibility with Water:       Fully miscible.         Partition coefficient (n-octanol/water): Not determined.         Viscosity:         Dynamic:       Not determined.         Kinematic:       Not determined.		
Water:       Fully miscible.         Partition coefficient (n-octanol/water): Not determined.         Viscosity:       Not determined.         Dynamic:       Not determined.	Water:       Fully miscible.         Partition coefficient (n-octanol/water):       Not determined.         Viscosity:       Dynamic:       Not determined.         Kinematic:       Not determined.	•	
Partition coefficient (n-octanol/water): Not determined.     Viscosity:     Dynamic: Not determined.	Partition coefficient (n-octanol/water): Not determined.     Viscosity:     Dynamic: Not determined.     Kinematic: Not determined.		Fully miscible
Viscosity: Dynamic: Not determined.	Viscosity:         Dynamic:       Not determined.         Kinematic:       Not determined.		-
Dynamic: Not determined.	Dynamic:     Not determined.       Kinematic:     Not determined.	· · · · · ·	
	Kinematic: Not determined.		
NOT DETERMINED.			
	(Contd. on page	Ninematic:	inol delerminea.

#### **Safety Data Sheet** acc. to OSHA HCS

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99.0 % 99.00 % 990.0 g/l / 8.26 lb/gal
0.0 %
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 dioxide, carbon monoxide

#### **11 Toxicological information**

· Information on toxicological effects

#### • Acute toxicity:

· LD/LC50 values that are relevant for classification:		
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	offent.	

· 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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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	
IMDG	METHANOL solution	

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(Contd. from page 8) · Transport hazard class(es) · DOT · Class **3** Flammable liquids · Label 3, 6.1 ·IMDG · Class **3 Flammable liquids** · Label 3/6.1 · IATA · Class **3** Flammable liquids · Label 3 (6.1) Packing group · DOT, IMDG, IATA Ш · Environmental hazards: Not applicable. · 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. · 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 ·IATA · Remarks: When sold in guantities 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.

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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	
<ul> <li>Section 355 (extremely hazardous substances):</li> </ul>	
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.	
<ul> <li>NIOSH-Ca (National Institute for Occupational Safety and Health)</li> </ul>	
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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<ul> <li>Department issuing SDS: Environment protection department.</li> </ul>		
Contact: -		
· Date of preparation / last revision 03/14/2022 / -		
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, 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 Flam. Lig. 2: Flammable liguids – Category 2		
Acute Tox. 3: Acute toxicity – Category 3		
STOT SE 1: Specific target organ toxicity (single exposure) – Category 1		
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