Printing date 05/15/2023

Reviewed on 05/15/2023

## **1** Identification

- · Product identifier
- · Trade name: Modified Methyl Red
- · Article number: CY058
- Details of the supplier of the safety data sheet • Manufacturer/Supplier:
- Aqua Solutions, Inc. 6913 Highway 225 DEER PARK, TX 77536 USA 800-256-2586
- Information department: Technical Coordinator Sherman Nelson shermann@aquasolutions.org
- *Emergency telephone number: Chemtrec: 800-424-9300 Canutec: 613-996-6666*

# 2 Hazard(s) identification

· Classification of the substance or mixture



Flammable Liquids 2

H225 Highly flammable liquid and vapor.

GHS06 Skull and crossbones

Acute Toxicity - Oral 3 Acute Toxicity - Dermal 3 Acute Toxicity - Inhalation 3 H301 Toxic if swallowed.H311 Toxic in contact with skin.H331 Toxic if inhaled.



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* 



· Signal word Danger

• Hazard-determining components of labeling: Methanol

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Hazard statements	(Contd. of page 1
Hazara statements Highly flammable liquid and vapor.	
Toxic if swallowed, in contact with skin or if inhaled.	
Causes damage to the central nervous system and the visual organs.	
Precautionary statements	
Frecautionary statements Keep away from heat/sparks/open flames/hot surfaces No smoking.	
Ground/bond container and receiving equipment.	
Use explosion-proof electrical/ventilating/lighting/equipment.	
Use only non-sparking tools.	
Take precautionary measures against static discharge.	
Do not breathe dust/fume/gas/mist/vapors/spray.	
Wash thoroughly after handling.	
Do not eat, drink or smoke when using this product.	
Use only outdoors or in a well-ventilated area.	
Wear protective gloves/protective clothing/eye protection/face protection.	
If swallowed: Immediately call a poison center/doctor.	
Specific treatment (see on this label).	
Rinse mouth.	
If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/show	ver.
IF INHALED: Remove person to fresh air and keep comfortable for breathing.	
IF exposed: Call a POISON CENTER or doctor/physician.	
Call a poison center/doctor if you feel unwell.	
Take off immediately all contaminated clothing and wash it before reuse.	
In case of fire: Use CO2, powder or water spray to extinguish.	
Store in a well-ventilated place. Keep container tightly closed.	
Store in a well-ventilated place. Keep cool.	
Store locked up.	
Dispose of contents/container in accordance with local/regional/national/international regulat	ions.
Classification system:	
NFPA ratings (scale 0 - 4)	
$\frac{1}{3} Health = 2$	
Fire = 3	
2 $0$ Reactivity = 0	
HMIS-ratings (scale 0 - 4)	
HEALTH 2 $Health = 2$	
FIRE 3 $Fire = 3$	
<b>REACTIVITY</b> $0$ Reactivity = 0	
Other hazards	
Results of PBT and vPvB assessment	
PBT: Not applicable.	
<b>vPvB:</b> Not applicable.	

- · Chemical characterization: Mixtures
- **Description:** Mixture of the substances listed below with nonhazardous additions.

## · Dangerous components:

CAS: 67-56-1 Methanol

99.748%

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· Table of Nonhazardous Ingredients		
CAS: 63451-28-5	Methyl Red Hydrochloride	0.152%
CAS: 7220-79-3	Methylene Blue	0.101%

#### 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.
- $\cdot$  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.

- · For safety reasons unsuitable extinguishing agents: Water with full jet
- · Special hazards arising from the substance or mixture
- During 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: 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.

- · 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.

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· Protective Action Criteria for Chemicals	(Contd. of page 3)
· PAC-1:	
CAS: 67-56-1 Methanol	530 ppm
· PAC-2:	
CAS: 67-56-1 Methanol	2,100 ppm
· PAC-3:	
CAS: 67-56-1 Methanol	7200* ppm

## 7 Handling and storage

#### · Handling:

- · Precautions for safe handling Ensure good ventilation/exhaustion at the workplace. Open and handle receptacle with care. Prevent formation of aerosols.
- · Information about protection against explosions and fires: Keep ignition sources away - Do not smoke. Protect against electrostatic charges. Keep respiratory protective device available.
- · Conditions for safe storage, including any incompatibilities
- · Storage:
- Requirements to be met by storerooms and receptacles: Store in a cool location.
- Information about storage in one common storage facility: Not required.
- Further information about storage conditions: Keep receptacle tightly sealed.
- Store in cool, dry conditions in well sealed receptacles. • *Specific end use(s) No further relevant information available.*

# 8 Exposure controls/personal protection

- Additional information about design of technical systems: No further data; see section 7.
- · Control parameters

· Com	· Components with limit values that require monitoring at the workplace:	
CAS:	: 67-56-1 Methanol	
PEL	Long-term value: 260 mg/m <sup>3</sup> , 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	
· Ingre	edients with biological limit values:	
CAS:	: 67-56-1 Methanol	
	15 mg/L LD50 Intraperitoneal: urine Time: end of shift LD50: Methanol (background, nonspecific)	
	(Contd. on page 5)	
CAS: BEI	: <b>67-56-1 Methanol</b> 15 mg/L LD50 Intraperitoneal: urine Time: end of shift LD50: Methanol (background, nonspecific)	

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· Flash point:

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<ul> <li>Additional information: The lists that were valid during the creation were used as basis.</li> <li>Exposure controls</li> <li>Personal protective and hygionic measures:</li> <li>Keep eavery from foodstuffs, beverages and feed. Immediately remove all solied and contaminated clothing. Wash hands before breaks and at the end of work. Store protective clothing separately. Avoid contact with the eyes and skin.</li> <li><b>Breathing equipment:</b></li> <li>Receive clothing separately.</li> <li>Avoid contact with the eyes and skin.</li> <li><b>Breathing equipment:</b></li> <li>The equipment:</li> <li>The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.</li> <li>Due to missing tests no recommendation to the glove material can be given for the product/ the preparation.</li> <li>Due to missing tests no recommendation to the glove material can be given for the product/ the reparation.</li> <li>Material of gloves</li> <li>The glove material has to be impermeable and resistant to the product of the product the preparation.</li> <li>Due to missing tests no recommendation to the glove material can be given for the product the expansion/ the chemical mixture.</li> <li>Selection of the subse waterial on consideration of the penetration times, rates of diffusion and the degradation</li> <li>Material of gloves</li> <li>The selection of the substance waterial can not be calculated in advance and has therefore to be checked prior to the application.</li> <li>Penetration time of glove material</li> <li>the exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.</li> <li>Experimetion:</li> <li>Prepreterimetion:</li> <li>Prepreterimetin:&lt;</li></ul>	Additional information. The lists th	(Contd. of page
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Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation • Material of gloves The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application. • Penetration time of glove material The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed. • Eye protection: • Eye protection: • Body protection: Protective work clothing • Information on basic physical and chemical properties • General Information • Appearance: Form: • Color: • Purple • Odor: • Methanol • Odor threshold: • Not determined. • pH-value: • Not determined. • Change in condition Melting point/Melting range: • -97.8 °C (-144 °F)		
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chemical mixture. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation • Material of gloves The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application. • Penetration time of glove material The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed. • Eye protection: • Eye protection: • Body protection: Protective work clothing 9 Physical and chemical properties • General Information • Appearance: Form: • Color: • Purple • Odor: • Methanol • Odor threshold: • Not determined. • Physical: • Change in condition Melting point/Melting range: • -97.8 °C (-144 °F)		
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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 and the 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:       • Eye protection:         • Body protection: Protective work clothing         • Information on basic physical and chemical properties         • General Information         • Appearance:         Form:       Liquid         Color:       Purple         • Odor:       Methanol         • Odor threshold:       Not determined.         • pH-value:       Not determined.		
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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. Experise Tightly sealed goggles Tightly sealed goggles Body protection: Protective work clothing  Physical and chemical properties Information on basic physical and chemical properties General Information Appearance: Form: Liquid Color: Purple Odor: Not determined. Purple Odor: Not determined. PH-value: Not determined. Change in condition Melting point/Melting range: -97.8 °C (-144 °F)		
<ul> <li>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.     </li> <li>Eye protection:         Tightly sealed goggles     </li> <li>Body protection: Protective work clothing     </li> <li>9 Physical and chemical properties         General Information         Appearance:         Form:         Liquid         Color:         Purple         Odor:         Methanol         Odor:         Methanol         Odor:         Not determined.         pH-value:         Not determined.         -PT.8 °C (-144 °F)         Oc (-144 °F)         Output:         Description:         Oc (-144 °F)         Description:         Description:         Oc (-144 °F)         Description:         D</li></ul>		
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• Body protection: Protective work clothing         • Body protection: Protective work clothing         • Information on basic physical and chemical properties         • General Information         • Appearance:         Form:       Liquid         Color:       Purple         • Odor:       Methanol         • Odor threshold:       Not determined.         • pH-value:       Not determined.         • Change in condition       -97.8 °C (-144 °F)		
Body protection: Protective work clothing <b>9</b> Physical and chemical properties      Information on basic physical and chemical properties      General Information      Appearance:     Form: Liquid     Color: Purple      Odor: Methanol      Odor: Methanol      Odor threshold: Not determined.      pH-value: Not determined.      Change in condition     Melting point/Melting range: -97.8 °C (-144 °F)	• Eye protection:	
Body protection: Protective work clothing <b>9</b> Physical and chemical properties      Information on basic physical and chemical properties      General Information      Appearance:     Form: Liquid     Color: Purple      Odor: Methanol      Odor: Methanol      Odor threshold: Not determined.      pH-value: Not determined.      Change in condition     Melting point/Melting range: -97.8 °C (-144 °F)		
Body protection: Protective work clothing <b>9</b> Physical and chemical properties      Information on basic physical and chemical properties      General Information      Appearance:     Form: Liquid     Color: Purple      Odor: Methanol      Odor: Methanol      Odor threshold: Not determined.      pH-value: Not determined.      Change in condition     Melting point/Melting range: -97.8 °C (-144 °F)		
9 Physical and chemical properties         • Information on basic physical and chemical properties         • General Information         • Appearance:         Form:       Liquid         Color:       Purple         • Odor:       Methanol         • Odor threshold:       Not determined.         • pH-value:       Not determined.         • Change in condition       -97.8 °C (-144 °F)	Tightly sealed goggles	
9 Physical and chemical properties         • Information on basic physical and chemical properties         • General Information         • Appearance:         Form:       Liquid         Color:       Purple         • Odor:       Methanol         • Odor threshold:       Not determined.         • pH-value:       Not determined.         • Change in condition       -97.8 °C (-144 °F)		
9 Physical and chemical properties         • Information on basic physical and chemical properties         • General Information         • Appearance:         Form:       Liquid         Color:       Purple         • Odor:       Methanol         • Odor threshold:       Not determined.         • pH-value:       Not determined.         • Change in condition       -97.8 °C (-144 °F)	· <b>Body protection:</b> Protective work cl	othing
<ul> <li>Information on basic physical and chemical properties</li> <li>General Information</li> <li>Appearance: <ul> <li>Form:</li> <li>Liquid</li> <li>Color:</li> <li>Purple</li> </ul> </li> <li>Odor:</li> <li>Methanol</li> <li>Odor threshold:</li> <li>Not determined.</li> </ul> <li>PH-value:</li> <li>Not determined.</li> <li>Change in condition <ul> <li>Melting range:</li> <li>-97.8 °C (-144 °F)</li> </ul> </li>		8
<ul> <li>Information on basic physical and chemical properties</li> <li>General Information</li> <li>Appearance:         <ul> <li>Form:</li> <li>Liquid</li> <li>Color:</li> <li>Purple</li> <li>Odor:</li> <li>Methanol</li> <li>Odor threshold:</li> <li>Not determined.</li> </ul> </li> <li>PH-value:</li> <li>Not determined.</li> <li>Change in condition Melting point/Melting range:</li> <li>-97.8 °C (-144 °F)</li> </ul>		
• General Information       Image: Color:         • Appearance:       Form:         • Form:       Liquid         • Color:       Purple         • Odor:       Methanol         • Odor threshold:       Not determined.         • pH-value:       Not determined.         • Change in condition       -97.8 °C (-144 °F)	9 Physical and chemical proper	ties
• General Information       Image: Color:         • Appearance:       Form:         • Form:       Liquid         • Color:       Purple         • Odor:       Methanol         • Odor threshold:       Not determined.         • pH-value:       Not determined.         • Change in condition       -97.8 °C (-144 °F)		
· Appearance:       Liquid         Form:       Liquid         Color:       Purple         · Odor:       Methanol         · Odor threshold:       Not determined.         · pH-value:       Not determined.         · Change in condition       -97.8 °C (-144 °F)		hemical properties
Form:LiquidColor:PurpleOdor:MethanolOdor threshold:Not determined.PH-value:Not determined.Change in condition Melting point/Melting range:-97.8 °C (-144 °F)		
Color:       Purple         · Odor:       Methanol         · Odor threshold:       Not determined.         · pH-value:       Not determined.         · Change in condition Melting point/Melting range:       -97.8 °C (-144 °F)		· · · · ·
• Odor:       Methanol         • Odor threshold:       Not determined.         • pH-value:       Not determined.         • Change in condition Melting point/Melting range:       -97.8 °C (-144 °F)		
· Odor threshold:       Not determined.         · pH-value:       Not determined.         · Change in condition Melting point/Melting range:       -97.8 °C (-144 °F)	001011	
· pH-value:       Not determined.         · Change in condition Melting point/Melting range:       -97.8 °C (-144 °F)		
• Change in condition Melting point/Melting range: -97.8 °C (-144 °F)		
Melting point/Melting range: -97.8 °C (-144 °F)	-	Not determined.
<b>Boiling point/Boiling range:</b> 64 °C (147.2 °F)		
	Boiling point/Boiling range:	64 °C (147.2 °F)

11 °C (51.8 °F)

(Contd. on page 6)

Printing date 05/15/2023

Reviewed on 05/15/2023

Trade name: Modified Methyl Red

	(Contd. of page 5
Flammability (solid, gaseous):	Highly flammable.
Auto igniting:	455 °C (851 °F)
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:	
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):	0.79192 g/cm <sup>3</sup> (6.60857 lbs/gal)
Relative density	Not determined.
Vapor density	Not determined.
Evaporation rate	Not determined.
Solubility in / Miscibility with	
Water:	Not miscible or difficult to mix.
Partition coefficient (n-octanol/wate	e <b>r):</b> Not determined.
Viscosity:	
Dynamic:	Not determined.
Kinematic:	Not determined.
Solvent content:	
Organic solvents:	99.7 %
VOC content:	99.75 %
	789.9 g/l / 6.59 lb/gal
Solids content:	0.3 %
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: No further relevant information available.
- · Hazardous decomposition products: No dangerous decomposition products known.

(Contd. on page 7)

Printing date 05/15/2023

Reviewed on 05/15/2023

#### Trade name: Modified Methyl Red

(Contd. of page 6)

		cological effects
· Acute toxi	city:	
· LD/LC50	values tha	t are relevant for classification:
ATE (Acu	te Toxicity	Estimate)
Oral	LD50	100 mg/kg
Dermal	LD50	301 mg/kg
Inhalative	LC50/4h	3.01 mg/l
The produc Toxic	ct shows th	<b>ical information:</b> the following dangers according to internally approved calculation methods for preparation
<ul> <li>Carcinoge</li> </ul>	0	
0	ernational	Agency for Research on Cancer)
· IARC (Inte		
· IARC (Inte		thylene Blue
• <b>IARC</b> (Int CAS: 7220	)-79-3 Me	
• IARC (Inte CAS: 7220 • NTP (Nati	)-79-3 Me ional Toxi	thylene Blue

# **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 1 (Self-assessment): slightly hazardous for water

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

- · 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.

(Contd. of page 7)

# Safety Data Sheet acc. to OSHA HCS

Reviewed on 05/15/2023

Trade name: Modified Methyl Red

Printing date 05/15/2023

Uncleaned packagings:
Recommendation: Disposal must be made according to official regulations.

UN.Number $DOT, IMDG, IATA$ $UN1993$ $UN proper shipping name$ $Flammable liquids, n.o.s. (Methanol)$ $IMDG, IATA$ $FLAMMABLE LIQUID, N.O.S. (Methanol)$ $Transport hazard class(es)$ $DOT$ $OT$ $V$ <th></th> <th></th>		
DOT       Flammable liquids, n.o.s. (Methanol)         IMDG, IATA       FLAMMABLE LIQUID, N.O.S. (Methanol)         Transport hazard class(es)       DOT         DOT       -         Class       3 Flammable liquids         Label       3         IMDG, IATA       3         IMDG, IATA       3         Class       3 Flammable liquids         Label       3         IMDG, IATA       3         Vertice       3         Packing group       11         DOT, IMDG, IATA       11         Eavironmental hazards:       No         Marine pollutant:       No         Special precautions for user       Warning: Flammable liquids         Hazard identification number (Kemler code): 336       4         EMS Number:       F-E,S-E         Stowage Category       B         Transport/Additional information:       Not applicable.         DOT       Quantity limitations       On passenger aircraft/rail: 1 L On cargo aircraft only: 60 L         IMDG       11       11		UN1993
IMDG, IATA       FLAMMABLE LIQUID, N.O.S. (Methanol)         Transport hazard class(es)         DOT         Imposed class(es)         ODT         Imposed class         Class         Imposed quantities (LQ)         Imposed quantities (LQ)	UN proper shipping name	
Transport hazard class(es)         DOT         Image: Solution of the system of the sys	DOT	
DOT         Class       3 Flammable liquids         Label       3         IMDG, IATA         Imble       3         Class       3 Flammable liquids         Imble       3         Packing group       3         DOT, IMDG, IATA       II         Environmental hazards:       No         Marine pollutant:       No         Special precautions for user       Warning: Flammable liquids         Hazard identification number (Kemler code): 336       Second         EMS Number:       F-E,S-E         Stowage Category       B         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)       IL	IMDG, IATA	FLAMMABLE LIQUID, N.O.S. (Methanol)
View3Class3Label3IMDG, IATAView3Class3IAbel3Class3Label3Packing group1DOT, IMDG, IATA11Environmental hazards:NoMarine pollutant:NoSpecial precautions for userWarning: Flammable liquidsHazard identification number (Kemler code):336EMS Number:F-E,S-EStowage CategoryBTransport in bulk according to Annex II of MARPOL73/78 and the IBC CodeNot applicable.Transport/Additional information:On passenger aircraft/rail: 1 L On cargo aircraft only: 60 LIMDGLimited quantities (LQ)IL	Transport hazard class(es)	
Label       3         IMDG, IATA         IMDG, IATA         Impose       3         Flammable liquids         Label       3         Packing group       3         DOT, IMDG, IATA       II         Environmental hazards:       No         Special precautions for user       Warning: Flammable liquids         Hazard identification number (Kemler code): 336       Secial precautions for user         FARS Number:       F-E, S-E         Stowage Category       B         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       IL	DOT	
Label       3         IMDG, IATA         IMDG, IATA         Impose       3         Flammable liquids         Label       3         Packing group       3         DOT, IMDG, IATA       II         Environmental hazards:       No         Special precautions for user       Warning: Flammable liquids         Hazard identification number (Kemler code): 336       Secial precautions for user         FARS Number:       F-E, S-E         Stowage Category       B         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       IL	RAMAGE LOOD	
IMDG, IATA         View         • Class       3 Flammable liquids         • Label       3         • Packing group       3         • DOT, IMDG, IATA       II         • Environmental hazards:       No         • Marine pollutant:       No         • Special precautions for user       Warning: Flammable liquids         • Hazard identification number (Kemler code): 336       •         • EMS Number:       F-E,S-E         • Stowage Category       B         • Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code       Not applicable.         • Transport/Additional information:       DOT         • DOT       Quantity limitations       On passenger aircraft/rail: 1 L On cargo aircraft only: 60 L         • IMDG       IL       IL		
Class		J
Label3Packing group DOT, IMDG, IATAIIEnvironmental hazards: Marine pollutant:NoSpecial precautions for userWarning: Flammable liquidsHazard identification number (Kemler code): 336 EMS Number: Stowage CategoryF-E,S-E BStowage CategoryBTransport in bulk according to Annex II of MARPOL73/78 and the IBC CodeNot applicable.Transport/Additional information: Quantity limitationsOn passenger aircraft/rail: 1 L On cargo aircraft only: 60 LIMDG Limited quantities (LQ)IL	IMDG, IATA	
<ul> <li>Packing group</li> <li>DOT, IMDG, IATA</li> <li>Environmental hazards:</li> <li>Marine pollutant:</li> <li>No</li> <li>Special precautions for user</li> <li>Hazard identification number (Kemler code): 336</li> <li>EMS Number:</li> <li>F-E,S-E</li> <li>Stowage Category</li> <li>B</li> <li>Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code</li> <li>Not applicable.</li> <li>Transport/Additional information:</li> <li>DOT</li> <li>Quantity limitations</li> <li>On passenger aircraft/rail: 1 L On cargo aircraft only: 60 L</li> <li>IMDG</li> <li>Limited quantities (LQ)</li> <li>IL</li> </ul>		-
DOT, IMDG, IATAII• Environmental hazards: • Marine pollutant:No• Special precautions for userWarning: Flammable liquids• Hazard identification number (Kemler code): 336 • EMS Number: • Stowage CategoryF-E,S-E • Stowage Category• Transport in bulk according to Annex II of MARPOL73/78 and the IBC CodeNot applicable.• Transport/Additional information: • DOT • Quantity limitationsOn passenger aircraft/rail: 1 L On cargo aircraft only: 60 L• IMDG • Limited quantities (LQ)1L	Label	3
Marine pollutant:No• Special precautions for userWarning: Flammable liquids• Hazard identification number (Kemler code):336• EMS Number:F-E,S-E• Stowage CategoryB• Transport in bulk according to Annex II of MARPOL73/78 and the IBC CodeNot applicable.• Transport/Additional information:Not applicable.• DOT • Quantity limitationsOn passenger aircraft/rail: 1 L On cargo aircraft only: 60 L• IMDG • Limited quantities (LQ)1L		II
<ul> <li>Hazard identification number (Kemler code): 336</li> <li>EMS Number: F-E, S-E</li> <li>Stowage Category B</li> <li>Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code Not applicable.</li> <li>Transport/Additional information:</li> <li>DOT</li> <li>Quantity limitations On passenger aircraft/rail: 1 L On cargo aircraft only: 60 L</li> <li>IMDG</li> <li>Limited quantities (LQ) 1L</li> </ul>		No
<ul> <li>Hazard identification number (Kemler code): 336</li> <li>EMS Number: F-E,S-E</li> <li>Stowage Category B</li> <li>Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code Not applicable.</li> <li>Transport/Additional information:</li> <li>DOT</li> <li>Quantity limitations On passenger aircraft/rail: 1 L On cargo aircraft only: 60 L</li> <li>IMDG</li> <li>Limited quantities (LQ) 1L</li> </ul>	Special precautions for user	Warning: Flammable liquids
Stowage Category       B         • Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code       Not applicable.         • Transport/Additional information:       • Not applicable.         • DOT       • Quantity limitations         • IMDG       • Limited quantities (LQ)	Hazard identification number (Kemler code):	336
Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code       Not applicable.         Transport/Additional information:       Not applicable.         DOT       On passenger aircraft/rail: 1 L On cargo aircraft only: 60 L         IMDG       1L		
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       1L	Stowage Category	В
• DOT • Quantity limitations On passenger aircraft/rail: 1 L On cargo aircraft only: 60 L • IMDG • Limited quantities (LQ) 1L		Not applicable.
Quantity limitationsOn passenger aircraft/rail: 1 L On cargo aircraft only: 60 LIMDG · Limited quantities (LQ)1L	Transport/Additional information:	
• Quantity limitations       On passenger aircraft/rail: 1 L         On cargo aircraft only: 60 L         • IMDG         • Limited quantities (LQ)	DOT	
On cargo aircraft only: 60 L • IMDG • Limited quantities (LQ) 1L	-	On passenger aircraft/rail: 1 L
· Limited quantities (LQ) 1L	-	
· Limited quantities (LQ) 1L	IMDG	
		Code: E2
Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml	Excepted quantities (EQ)	

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ACTIVE

# Safety Data Sheet acc. to OSHA HCS

Printing date 05/15/2023

Reviewed on 05/15/2023

Trade name: Modified Methyl Red

· UN "Model Regulation":

UN 1993 FLAMMABLE LIQUID, N.O.S. (METHANOL), 3, 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):

CAS: 67-56-1 Methanol

· TSCA (Toxic Substances Control Act):

Methanol

· Hazardous Air Pollutants

CAS: 67-56-1 Methanol

· Proposition 65

 $\cdot$  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:

CAS: 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.

• *GHS label elements* The product is classified and labeled according to the Globally Harmonized System (GHS). • *Hazard pictograms* 



· Signal word Danger

• Hazard-determining components of labeling: Methanol

• *Hazard statements Highly flammable liquid and vapor. Toxic if swallowed, in contact with skin or if inhaled.* 

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Printing date 05/15/2023

Reviewed on 05/15/2023

## Trade name: Modified Methyl Red

	(Contd. of page 9)
Causes damage to the central nervous system and the visual organs.	
Precautionary statements	
Keep away from heat/sparks/open flames/hot surfaces No smoking.	
Ground/bond container and receiving equipment.	
Use explosion-proof electrical/ventilating/lighting/equipment.	
Use only non-sparking tools.	
Take precautionary measures against static discharge.	
Do not breathe dust/fume/gas/mist/vapors/spray.	
Wash thoroughly after handling.	
Do not eat, drink or smoke when using this product.	
Use only outdoors or in a well-ventilated area.	
Wear protective gloves/protective clothing/eye protection/face protection.	
If swallowed: Immediately call a poison center/doctor.	
Specific treatment (see on this label).	
Rinse mouth.	
If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.	
IF INHALED: Remove person to fresh air and keep comfortable for breathing.	
IF exposed: Call a POISON CENTER or doctor/physician.	
Call a poison center/doctor if you feel unwell.	
Take off immediately all contaminated clothing and wash it before reuse.	
In case of fire: Use CO2, powder or water spray to extinguish.	
Store in a well-ventilated place. Keep container tightly closed.	
Store in a well-ventilated place. Keep cool.	
Store locked up.	
Dispose of contents/container in accordance with local/regional/national/international regulations.	
• Chemical safety assessment: A Chemical Safety Assessment has not been carried out.	

# **16 Other information**

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· Department issuing SDS: Environment protection department.

· Contact:

\*

•	Contact:
	Date of preparation / last revision
	Revision 1.0 05/15/2023, reviewed SDS for accuracy. STN
	Revision 0.0, creation date for SDS, 12-31-2015. STN
	05/15/2023
	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

(Contd. on page 11)

<sup>-</sup> US

Printing date 05/15/2023

Trade name: Modified Methyl Red

Reviewed on 05/15/2023

(Contd. of page 10)

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 • \* Data compared to the previous version altered.

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