Printing date 06/10/2024

Reviewed on 06/10/2024

#### **1** Identification

- · Product identifier
- Trade name: <u>Xylene Cyanole Methyl</u> Orange Mixed Indicator
- · Article number: OLI061
- 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 1 H224 Extremely flammable liquid and vapor.

· Label elements

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



# Signal word Danger Hazard statements Extremely flammable liquid and vapor. Precautionary statements Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Keep container tightly closed. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting/equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Wear protective gloves/protective clothing/eye protection/face protection. If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. In case of fire: Use CO2, powder or water spray to extinguish. Store in a well-ventilated place. Keep cool. Dispose of contents/container in accordance with local/regional/national/international regulations.

(Contd. on page 2)

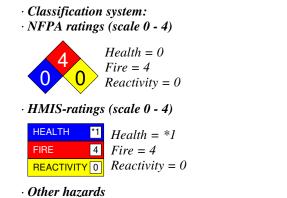
US

Printing date 06/10/2024

Reviewed on 06/10/2024

#### Trade name: Xylene Cyanole Methyl Orange Mixed Indicator

(Contd. of page 1)



· 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 con	nponents:	
CAS: 64-17-5	Ethyl Alcohol, Absolute 200 Proof	39.699%
CAS: 67-56-1	Methanol	2.206%
CAS: 67-63-0	Isopropanol	2.206%
v	azardous Ingredients	
CAS: 7732-18-	5 Water	55.555%
CAS: 2650-17-	1 Xylene Cyanole FF (C.I. 42135), Indicator and Biological Stain	0.313%
CAS: 547-58-0	sodium 4-(4-dimethylaminophenylazo)benzenesulphonate	0.022%

#### 4 First-aid measures

· Description of first aid measures

- · General information: Immediately remove any clothing soiled by the product.
- After inhalation: Supply fresh air; consult doctor in case of complaints.
- · After skin contact: Immediately rinse with water.
- · After eye contact: Rinse opened eye for several minutes under running water.
- After swallowing: If symptoms persist consult doctor.
- Information for doctor:
- · Most important symptoms and effects, both acute and delayed No further relevant information available.
- · Indication of any immediate medical attention and special treatment needed

No further relevant information available.

#### **5** Fire-fighting measures

- · Extinguishing media
- · Suitable extinguishing agents:

CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

(Contd. on page 3)

US

Printing date 06/10/2024

#### Trade name: Xylene Cyanole Methyl Orange Mixed Indicator

(Contd. of page 2)

Reviewed on 06/10/2024

· For safety reasons unsuitable extinguishing agents: Water with full jet

• Special hazards arising from the substance or mixture No further relevant information available.

· Advice for firefighters

· Protective equipment: No special measures required.

#### 6 Accidental release measures

· Personal precautions, protective equipment and emergency procedures
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.

#### · Protective Action Criteria for Chemicals

· PAC-1:		
CAS: 64-17-5	Ethyl Alcohol, Absolute 200 Proof	1,800 ppm
CAS: 67-56-1	Methanol	530 ppm
CAS: 67-63-0	Isopropanol	400 ppm
CAS: 547-58-0 sodium 4-(4-dimethylaminophenylazo)benzenesulphonate		0.18 mg/m <sup>3</sup>
· PAC-2:		
CAS: 64-17-5	Ethyl Alcohol, Absolute 200 Proof	3300* ppm
CAS: 67-56-1	Methanol	2,100 ppm
CAS: 67-63-0	Isopropanol	2000* ppm
CAS: 547-58-0	sodium 4-(4-dimethylaminophenylazo)benzenesulphonate	$2 mg/m^3$
· PAC-3:		
CAS: 64-17-5	Ethyl Alcohol, Absolute 200 Proof	15000* ppm
CAS: 67-56-1	Methanol	7200* ppm
CAS: 67-63-0	Isopropanol	12000** ppm
CAS: 547-58-0	sodium 4-(4-dimethylaminophenylazo)benzenesulphonate	12 mg/m <sup>3</sup>

## 7 Handling and storage

· Handling:

· Precautions for safe handling Open and handle receptacle with care.

• Information about protection against explosions and fires: Keep ignition sources away - Do not smoke. Protect against electrostatic charges.

· 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.

(Contd. on page 4)

*Printing date 06/10/2024* 

#### Trade name: Xylene Cyanole Methyl **Orange Mixed Indicator**

(Contd. of page 3)

Reviewed on 06/10/2024

Keep receptacle tightly sealed. Do not gas tight seal receptacle.

Store in cool, dry conditions in well sealed receptacles.

Protect from heat and direct sunlight.

• *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

Contra	rol parameters	
-	ponents with limit values that require monitoring at the workplace:	
	64-17-5 Ethyl Alcohol, Absolute 200 Proof	
PEL	Long-term value: 1900 mg/m³, 1000 ppm	
REL	Long-term value: 1900 mg/m³, 1000 ppm	
	Short-term value: 1000 ppm A3	
CAS:	67-56-1 Methanol	
PEL	Long-term value: 260 mg/m³, 200 ppm	
REL	Short-term value: 325 mg/m³, 250 ppm Long-term value: 260 mg/m³, 200 ppm Skin	
TLV	Short-term value: 250 ppm Long-term value: 200 ppm Skin; BEIc	
CAS:	67-63-0 Isopropanol	
PEL	Long-term value: 980 mg/m³, 400 ppm	
	Short-term value: 1225 mg/m³, 500 ppm Long-term value: 980 mg/m³, 400 ppm	
TLV	Short-term value: 400 ppm Long-term value: 200 ppm BEI, A4	
· Ingre	dients with biological limit values:	
CAS:	67-56-1 Methanol	
-	15 mg/L LD50 Intraperitoneal: urine Time: end of shift LD50: Methanol (background, nonspecific)	
CAS:	67-63-0 Isopropanol	
	40 mg/L LD50 Intraperitoneal: urine Time: end of shift at end of workweek LD50: Acetone (background, nonspecific)	
	tional information: The lists that were valid during the creation were used as basis.	(Contd. on page 5)

page US

Printing date 06/10/2024

Reviewed on 06/10/2024

#### Trade name: Xylene Cyanole Methyl Orange Mixed Indicator

(Contd. of page 4)

- · Exposure controls
- · Personal protective equipment:
- General protective and hygienic measures: Immediately remove all soiled and contaminated clothing. Wash hands before breaks and at the end of work.
- Breathing equipment: Use suitable respiratory protective device in case of insufficient ventilation.
- Protection of hands:



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation • Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application. • Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

• Eye protection:



\*

Tightly sealed goggles

· Body protection: Protective work clothing

Information on basic physical and	chemical properties	
General Information		
Form:	Liquid	
Color:	Blue-Green	
Odor:	Odorless	
Odor threshold:	Not determined.	
pH-value:	Not determined.	
Change in condition		
Melting point/Melting range:	Undetermined.	
Boiling point/Boiling range:	<35 °C (<95 °F)	
Flash point:	11 °C (51.8 °F)	
Flammability (solid, gaseous):	Not applicable.	
Auto igniting:	425 °C (797 °F)	
Decomposition temperature:	Not determined.	

Printing date 06/10/2024

Reviewed on 06/10/2024

#### Trade name: Xylene Cyanole Methyl Orange Mixed Indicator

	(Contd. of page :
Ignition temperature:	Product is not selfigniting.
Danger of explosion:	Product is not explosive. However, formation of explosive air/vapo mixtures are possible.
· Explosion limits:	
Lower:	3.5 Vol %
Upper:	19 Vol %
· Vapor pressure at 20 °C (68 °F):	59 hPa (44.3 mm Hg)
· Vapor pressure at 50 °C (122 °F):	280 hPa (210 mm Hg)
• Density at 20 °C (68 °F):	0.90703 g/cm <sup>3</sup> (7.56917 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	r): Not determined.
· Viscosity:	
Dynamic:	Not determined.
Kinematic:	Not determined.
· Solvent content:	
Organic solvents:	44.1 %
Water:	55.6 %
VOC content:	44.11 %
	400.1 g/l / 3.34 lb/gal
Solids content:	40.0 %
• 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.

#### **11 Toxicological information**

· Information on toxicological effects

• Acute toxicity:

· LD/LC50 values that are relevant for classification:

ATE (Acute Toxicity Estimate)

*Oral LD50 4,534 mg/kg* 

(Contd. on page 7)

US -

*Printing date 06/10/2024* 

Reviewed on 06/10/2024

(Contd. of page 6)

1

3

#### Trade name: Xylene Cyanole Methyl Orange Mixed Indicator

Dermal		13,602 mg/kg
Inhalative	LC50/4h	136 mg/l

• Primary irritant effect:

• on the skin: No irritant effect.

 $\cdot$  on the eye: No irritating effect.

• Sensitization: No sensitizing effects known.

• Additional toxicological information:

· Carcinogenic categories

· IARC (International Agency for Research on Cancer)

CAS: 64-17-5 Ethyl Alcohol, Absolute 200 Proof

CAS: 67-63-0 Isopropanol

· 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 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.

· Uncleaned packagings:

• **Recommendation:** Disposal must be made according to official regulations.

14 Transport information		
· UN-Number · DOT, IMDG, IATA	UN1993	
		(Contd. on pa

Printing date 06/10/2024

Reviewed on 06/10/2024

ade name: Xylene Cyanole Methyl Orange Mixed Indicator	
	(Contd. of pag
· UN proper shipping name · DOT	Flammable liquids, n.o.s. (Ethanol, Methanol, Isopropanol
IMDG, IATA	) FLAMMABLE LIQUID, N.O.S. (Ethanol, Methanol, Isopropand )
Transport hazard class(es)	
· Class · Label	3 Flammable liquids 3
· IMDG, IATA	
• Class • Label	3 Flammable liquids 3
Packing group	5
· DOT, IMDG, IATA	II
Environmental hazards:	Not applicable.
Special precautions for user	Warning: Flammable liquids
· Hazard identification number (Kemler code, · EMS Number:	: 33 F-E,S-E
· Stowage Category	E
• 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: 30 L
IMDG	
· Limited quantities (LQ)	0 Code: E2
Excepted quantities (EQ)	Code: E3 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 300 ml
UN ''Model Regulation'':	UN 1993 FLAMMABLE LIQUID, N.O.S. (ETHANC METHANOL, ISOPROPANOL ), 3, II

(Contd. on page 9)

Printing date 06/10/2024

\*

Reviewed on 06/10/2024

# Trade name: Xylene Cyanole Methyl Orange Mixed Indicator

(Contd. of page 8)

- US

• Safety, health and environmental regulations/legislation specific for the sur No further relevant information available. • Sara	bstance or mixture
• Section 355 (extremely hazardous substances):	
None of the ingredients is listed.	
Section 313 (Specific toxic chemical listings):	
CAS: 67-56-1 Methanol	
CAS: 67-63-0 Isopropanol	
· TSCA (Toxic Substances Control Act):	
Water	ACTIV
Ethyl Alcohol, Absolute 200 Proof	ACTIV
Methanol	ACTIV
Isopropanol	ACTIV
Xylene Cyanole FF (C.I. 42135), Indicator and Biological Stain	ACTIV
sodium 4-(4-dimethylaminophenylazo)benzenesulphonate	ACTIV
· Hazardous Air Pollutants	
CAS: 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:	
CAS: 64-17-5 Ethyl Alcohol, Absolute 200 Proof	
CAS: 67-56-1 Methanol	
· Carcinogenic categories	
· EPA (Environmental Protection Agency)	
None of the ingredients is listed.	
• TLV (Threshold Limit Value)	
	A
CAS: 64-17-5 Ethyl Alcohol, Absolute 200 Proof	
	A
CAS: 64-17-5 Ethyl Alcohol, Absolute 200 Proof	A

Printing date 06/10/2024

Reviewed on 06/10/2024

#### Trade name: Xylene Cyanole Methyl Orange Mixed Indicator

(Contd. of page 9) · Hazard pictograms GHS02 · Signal word Danger · Hazard statements Extremely flammable liquid and vapor. · Precautionary statements Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Keep container tightly closed. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting/equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Wear protective gloves/protective clothing/eye protection/face protection. If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. In case of fire: Use CO2, powder or water spray to extinguish. Store in a well-ventilated place. Keep cool. 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: Date of Preparation / Last Revision: Date of preparation / last revision Revision 1.2, 06/10/2024: Reviewed SDS for accuracy. MH/STN Revision 0.0, 05-29-2024: Creation date for SDS. STN 06/10/2024 / 1.0

· Abbreviations and acronyms: IMDG: International Maritime Code for Dangerous Goods DOT: US Department of Transportation IATA: International Air Transport Association EINECS: European Inventory of Existing Commercial Chemical Substances ELINCS: European List of Notified Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) NFPA: National Fire Protection Association (USA) HMIS: Hazardous Materials Identification System (USA) VOC: Volatile Organic Compounds (USA, EU) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative NIOSH: National Institute for Occupational Safety OSHA: Occupational Safety & Health TLV: Threshold Limit Value PEL: Permissible Exposure Limit REL: Recommended Exposure Limit **BEI:** Biological Exposure Limit Flammable Liquids 1: Flammable liquids - Category 1  $\cdot$  \* Data compared to the previous version altered.