Printing date 06/03/2024

Reviewed on 06/03/2024

1 Identification	
· Product identifier	
• Trade name: <u>Isopropanol - Methyl</u> <u>Cellosolve 4:1</u>	
• Article number: UC117	
 Details of the supplier of the safety data s Manufacturer/Supplier: Aqua Solutions, Inc. 6913 Highway 225 DEER PARK, TX 77536 USA 800-256-2586 	heet AQUA SOLUTIONS
 Information department: Technical Coordinator Sherman Nelson shermann@aquasolution Emergency telephone number: Chemtrec: 800-424-9300 Canutec: 613-996-6666 	s.org
2 Hazard(s) identification · Classification of the substance or mixture	ę
GHS02 Flame	
Flammable Liquids 2	H225 Highly flammable liquid and vapor.
GHS08 Health hazard	
Toxic to Reproduction 1B	H360 May damage fertility or the unborn child.
Eye Irritation 2A	H319 Causes serious eye irritation.
Specific Target Organ Toxicity - Single Ex	xposure 3 H336 May cause drowsiness or dizziness.
 Label elements GHS label elements The product is classif Hazard pictograms 	fied and labeled according to the Globally Harmonized System (GHS).
GHS02 GHS07 GHS08	
· Signal word Danger	
	ing:

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Trade name: Isopropanol - Methyl Cellosolve 4:1

 Hazard statements Highly flammable liquid and vapor. Causes serious eye irritation. May damage fertility or the unborn child. May cause drowsiness or diziness. Prevationary statements Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Keep away from heat/sparks/open flames/hot surfaces No smoking. Ground/bond container and receiving equipment. Use enty ond-sparking tools. Take precautionary measures against static discharge. Avoid breathing dus/fjume/gas/mist/vapors/spray Wash thoroughly after handling. Use only outdoors or in a well-ventilated area. Wear protective gloves/protective clothing/eye protection/face protection. If on skin (or hair): Take off immediated yal contaminated clothing. Rinse skin with water/shower. IF INHALED: Remove person to fresh air and keep comfortable for breathing. If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. IF ENHALED: Remove person to fresh air and keep comfortable for breathing. If negoes dro concerned: Get medical advice/attention. Contain erinsing. IF exposed or concerned: Get medical advice/attention. In case of fire: Use CO2, powder or water spray to extinguish. Store in a well-ventilated place. Keep cool. Store locked up. Dispose of content/scontainer in accordance with local/regional/national/international regulations. Classification system: Noteplaced blace. Noteplaced blace	II	(Contd. of page 1)
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• Results of PBT and vPvB assessment		
· PBT : Not applicable.		
· vPvB: Not applicable.	• vPvB: Not appl	icadie.

3 Composition/information on ingredients

· Chemical characterization: Mixtures

• Description: Mixture of the substances listed below with nonhazardous additions.

(Contd. on page 3)

Printing date 06/03/2024

Reviewed on 06/03/2024

Trade name: Isopropanol - Methyl Cellosolve 4:1

(Contd. of page 2)

76.492% 23.508%

· Dangerous components:

CAS: 67-63-0 Isopropanol

Ethylene Glycol Monomethyl Ether

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. If symptoms persist, consult a doctor.
- After swallowing: If symptoms persist consult doctor.
- 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. • 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 prec	autions, protective equipment and emergency procedures		
•	e equipment. Keep unprotected persons away.		
· Environmenta	I precautions:		
Dilute with ple	nty of water.		
	o enter sewers/ surface or ground water.		
	naterial for containment and cleaning up:		
Absorb with li	quid-binding material (sand, diatomite, acid binders, universal binders, sawdust).		
	minated material as waste according to section 13.		
Ensure adeque			
· Reference to o			
v	for information on safe handling.		
See Section 8	for information on personal protection equipment.		
See Section 13	for disposal information.		
· Protective Act	ion Criteria for Chemicals		
· PAC-1:			
CAS: 67-63-0	Isopropanol	4	400 ppm
	Ethylene Glycol Monomethyl Ether	().3 ppm
· PAC-2:			
CAS: 67-63-0	Isopropanol	200	00* ppm
		(Contd	on page 4)
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		(Contd. of page 3)
	Ethylene Glycol Monomethyl Ether	14 ppm
· PAC-3:		
CAS: 67-63-0	Isopropanol	12000** ppm
	Ethylene Glycol Monomethyl Ether	2000* 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

CAS:	67-63-0 Isopropanol
PEL	Long-term value: 980 mg/m ³ , 400 ppm
REL	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
Ethyle	ne Glycol Monomethyl Ether
PEL	Long-term value: 80 mg/m ³ , 25 ppm Skin
REL	Long-term value: 0.3 mg/m³, 0.1 ppm Skin
TLV	Long-term value: 0.1 ppm Skin; BEI
WEEL	Skin; B

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CAS	: 67-63-0 Isopropanol
	40 mg/L
221	LD50 Intraperitoneal: urine
	Time: end of shift at end of workweek
	LD50: Acetone (background, nonspecific)
Ethy	elene Glycol Monomethyl Ether
-	1 mg/g creatinine
DLI	LD50 Intraperitoneal: urine
	Time: end of shift at end of workweek
	LD50: 2-Methoxyacetic acid
Add	<i>itional information:</i> The lists that were valid during the creation were used as basis.
	•
	osure controls
	onal protective equipment:
	eral protective and hygienic measures:
	p away from foodstuffs, beverages and feed.
	ediately remove all soiled and contaminated clothing.
	h hands before breaks and at the end of work.
	e protective clothing separately.
	id contact with the eyes.
	id 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 exposure u
	iratory protective device that is independent of circulating air.
Froi	ection of hands:
1/1	Protective gloves
	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 preparation/ the
	nical mixture.
	ction of the glove material on consideration of the penetration times, rates of diffusion and the degradation
	erial of gloves
	selection of the suitable gloves does not only depend on the material, but also on further marks of quality and
	es from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance
	glove material can not be calculated in advance and has therefore to be checked prior to the application.
	etration time of glove material eract break through time has to be found out by the manufacturer of the protective gloves and has to b
	exact break through time has to be found out by the manufacturer of the protective gloves and has to l prved.
	protection:
Lye	protection.
	Tightly sealed goggles
	I ignity sectied goggies
	y protection: Protective work clothing
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Information on basic physical and che	mical properties
General Information	
Appearance:	
Form:	Liquid
Color:	Clear
Odor:	Alcohol Not determined.
Odor threshold:	
pH-value:	Not determined.
Change in condition	
Melting point/Melting range:	Undetermined.
Boiling point/Boiling range:	82 °C (179.6 °F)
Flash point:	13 °C (55.4 °F)
Flammability (solid, gaseous):	Highly flammable.
Auto igniting:	310 °C (590 °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:	2 Vol %
Upper:	20.6 Vol %
Vapor pressure at 20 °C (68 °F):	43 hPa (32.3 mm Hg)
Density at 20 °C (68 °F):	0.821 g/cm ³ (6.85125 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:	Not determined.
Kinematic:	Not determined.
Solvent content:	
Organic solvents:	100.0 %
VOC content:	100.00 %
	821.0 g/l / 6.85 lb/gal
Solids content:	0.0 %
Other information	No further relevant information available.

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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	2,127 mg/kg
		4,679 mg/kg
Inhalative	LC50/4h	46.8 mg/l

· Primary irritant effect:

• on the skin: No irritant effect.

· on the eye: Irritating effect.

• Sensitization: No sensitizing effects known.

· Additional toxicological information:

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

· Carcinogenic categories

· IARC (International Agency for Research on Cancer)

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.

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· 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	UN1993
UN proper shipping name	
DOT	Flammable liquids, n.o.s. (Isopropanol
IMDC IATA	, Ethylene Glycol Monomethyl Ether) FLAMMABLE LIQUID, N.O.S. (Isopropanol
IMDG, IATA	, Ethylene Glycol Monomethyl Ether)
Transport hazard class(es)	
DOT	
RLAMARE LOUD	
Class	3 Flammable liquids
Label	3
IMDG, IATA	
Class	3 Flammable liquids
Label	3
Packing group	
DOT, IMDG, IATA	II
Environmental hazards:	
Marine pollutant:	No
Special precautions for user	Warning: Flammable liquids
Hazard identification number (Kemler cod	
EMS Number:	<i>F-E,<u>S-E</u></i>

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	(Contd. of page
· Stowage Category	В
• 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: 5 L On cargo aircraft only: 60 L
·IMDG	
· Limited quantities (LQ)	1L
\cdot Excepted quantities (EQ)	Code: E2
	Maximum net quantity per inner packaging: 30 ml
	Maximum net quantity per outer packaging: 500 ml
· UN "Model Regulation":	UN 1993 FLAMMABLE LIQUID, N.O.S. (ISOPROPANOL , ETHYLENE GLYCOL MONOMETHYL ETHER), 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):	
All ingredients are listed.	
· TSCA (Toxic Substances Control Act):	
Isopropanol	ACTIVE
Ethylene Glycol Monomethyl Ether	ACTIVE
· Hazardous Air Pollutants	
None of the ingredients is listed.	
· 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:	
Ethylene Glycol Monomethyl Ether	
· Chemicals known to cause developmental toxicity:	
Ethylene Glycol Monomethyl Ether	
· Carcinogenic categories	
· EPA (Environmental Protection Agency)	
None of the ingredients is listed.	
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A4

• TLV (Threshold Limit Value) CAS: 67-63-0 Isopropanol

· 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: Ethylene Glycol Monomethyl Ether Isopropanol · Hazard statements Highly flammable liquid and vapor. Causes serious eye irritation. May damage fertility or the unborn child. May cause drowsiness or dizziness. · Precautionary statements Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. 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. Avoid breathing dust/fume/gas/mist/vapors/spray Wash thoroughly after handling. Use only outdoors or in a well-ventilated area. 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. IF INHALED: Remove person to fresh air and keep comfortable for breathing. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. IF exposed or concerned: Get medical advice/attention. Call a poison center/doctor if you feel unwell. If eye irritation persists: Get medical advice/attention. 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.

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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, 06/03/2024: Reviewed SDS for accuracy. MH/STN Creation date for SDS 09-01-2015. STN 06/03/2024 · Abbreviations and acronyms: IMDG: International Maritime Code for Dangerous Goods DOT: US Department of Transportation IATA: International Air Transport Association EINECS: European Inventory of Existing Commercial Chemical Substances ELINCS: European List of Notified Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) NFPA: National Fire Protection Association (USA) HMIS: Hazardous Materials Identification System (USA) VOC: Volatile Organic Compounds (USA, EU) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative NIOSH: National Institute for Occupational Safety **OSHA:** Occupational Safety & Health TLV: Threshold Limit Value PEL: Permissible Exposure Limit REL: Recommended Exposure Limit BEI: Biological Exposure Limit Flammable Liquids 2: Flammable liquids – Category 2 Eye Irritation 2A: Serious eye damage/eye irritation - Category 2A Toxic to Reproduction 1B: Reproductive toxicity – Category 1B Specific Target Organ Toxicity - Single Exposure 3: Specific target organ toxicity (single exposure) - Category 3 • * Data compared to the previous version altered.

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