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US

1 Identification · Product identifier • Trade name: MEC Solvent • Article number: EOS062 • Details of the supplier of the safety data sheet · Manufacturer/Supplier: Aqua Solutions, Inc. 6913 Highway 225 DEER PARK, TX 77536 USA800-256-2586 · Information department: Technical Coordinator Sherman Nelson shermann@aquasolutions.org 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 GHS02 Flame Flammable Liquids 2 H225 Highly flammable liquid and vapor. GHS06 Skull and crossbones Acute Toxicity - Inhalation 3 H331 Toxic if inhaled. GHS08 Health hazard Carcinogenicity 2 H351 Suspected of causing cancer. Toxic to Reproduction 2 H361 Suspected of damaging fertility or the unborn child. Specific Target Organ Toxicity - Single Exposure 1 H370 Causes damage to the central nervous system and the visual organs. Specific Target Organ Toxicity - Repeated Exposure 1 H372 Causes damage to the central nervous system, the kidneys, the liver and the respiratory system through prolonged or repeated exposure. GHS07 H302 Harmful if swallowed. Acute Toxicity - Oral 4 Skin Irritation 2 H315 Causes skin irritation. H319 Causes serious eye irritation. Eye Irritation 2A

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· Label elements • GHS label elements The product is classified and labeled according to the Globally Harmonized System (GHS). · Hazard pictograms GHS02 GHS06 GHS07 GHS08 · Signal word Danger · Hazard-determining components of labeling: Chloroform Methanol Ethylene Glycol · Hazard statements Highly flammable liquid and vapor. Harmful if swallowed. Toxic if inhaled. Causes skin irritation. Causes serious eye irritation. Suspected of causing cancer. Suspected of damaging fertility or the unborn child. Causes damage to the central nervous system and the visual organs. Causes damage to the central nervous system, the kidneys, the liver and the respiratory system through prolonged or repeated exposure. · 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. 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: Call a poison center/doctor if you feel unwell. 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 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.* Specific treatment (see on this label). Get medical advice/attention if you feel unwell. Take off contaminated clothing and wash it before reuse. If skin irritation occurs: Get medical advice/attention. 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.

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Store locked up. Dispose of contents/container in accordance with local/regional/national/international regulations. • Classification system:

• NFPA ratings (scale 0 - 4)

 $\begin{array}{c} \textbf{Health} = 2\\ \textbf{Fire} = 3\\ \textbf{Reactivity} = 0 \end{array}$

· HMIS-ratings (scale 0 - 4)

HEALTH*2Health = *2FIRE3Fire = 3REACTIVITY0Reactivity = 0

· 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: 67-66-3	Chloroform	75.687%
CAS: 107-21-1	Ethylene Glycol	14.193%
CAS: 67-56-1	Methanol	10.12%

4 First-aid measures

· Description of first aid measures

• General information:

Immediately remove any clothing soiled by the product.

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

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. If symptoms persist, consult a doctor.

· After swallowing: Immediately call a 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.

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Safety Data Sheet acc. to OSHA HCS

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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
- 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:
- Dilute with plenty of water.

Do not allow to enter sewers/ surface or ground water.

• *Methods and material for containment and cleaning up:* Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Dispose contaminated material as waste according to 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: 67-66-3	Chloroform	2 ppm
CAS: 107-21-1	Ethylene Glycol	30 ppm
CAS: 67-56-1	Methanol	530 ppm
· PAC-2:		
CAS: 67-66-3	Chloroform	64 ppm
CAS: 107-21-1	Ethylene Glycol	150 ppm
CAS: 67-56-1	Methanol	2,100 ppm
· PAC-3:		
CAS: 67-66-3	Chloroform	3,200 ppm
CAS: 107-21-1	Ethylene Glycol	900 ppm
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.*

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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

· Comp	Components with limit values that require monitoring at the workplace:		
CAS:	67-66-3 Chloroform		
PEL	Ceiling limit value: 240 mg/m ³ , 50 ppm		
REL	Short-term value: 9.78* mg/m³, 2* ppm *60-min; See Pocket Guide App. A		
TLV	Long-term value: 10 ppm A3		
CAS:	107-21-1 Ethylene Glycol		
TLV	Short-term value: 10** mg/m ³ , 50* ppm Long-term value: 25* ppm *vapor fraction:**inh. fraction, aerosol only, A4		
WEEL			
CAS:	67-56-1 Methanol		
PEL	Long-term value: 260 mg/m ³ , 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		
· Ingrea	lients with biological limit values:		
CAS:	67-56-1 Methanol		
L T L	5 mg/L D50 Intraperitoneal: urine 'ime: end of shift D50: Methanol (background, nonspecific)		
· Additi	onal information: The lists that were valid during the creation were used as basis.		
· Person · Gener Keep o Immed	ure controls nal protective equipment: al protective and hygienic measures: away from foodstuffs, beverages and feed. liately remove all soiled and contaminated clothing.		
Wash	hands before breaks and at the end of work.		

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Store protective clothing separately. Avoid contact with the eyes and skin.	
· Breathing equipment:	
	ution use respiratory filter device. In case of intensive or longer exposure use independent of circulating air.
Protective gloves	
	eable and resistant to the product/ the substance/ the preparation. ation to the glove material can be given for the product/ the preparation/ the
	nsideration of the penetration times, rates of diffusion and the degradation
The selection of the suitable gloves a varies from manufacturer to manufac the glove material can not be calcula Penetration time of glove material	loes not only depend on the material, but also on further marks of quality and cturer. As the product is a preparation of several substances, the resistance of ated in advance and has therefore to be checked prior to the application.
The exact break through time has to observed. • Eye protection:	to be found out by the manufacturer of the protective gloves and has to be
Eye protection.	
Tightly sealed goggles	
• Body protection: Protective work clo	othing
9 Physical and chemical proper	ties
· Information on basic physical and c	chemical properties
• General Information	
· Appearance: Form:	Liquid
Color:	Clear
· Odor:	Characteristic
• Odor threshold:	Not determined.
· pH-value:	Not determined.
· Change in condition	
Melting point/Melting range:	Undetermined.
Boiling point/Boiling range:	64 °C (147.2 °F)
· Flash point:	0 °C (32 °F)
· Flammability (solid, gaseous):	Highly flammable.
· Auto igniting:	410 °C (770 °F)
• Decomposition temperature:	Not determined.
· Ignition temperature:	Product is not selfigniting.
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	(Contd. of page (
Danger of explosion:	Product is not explosive. However, formation of explosive air/vapor mixtures are possible.
Explosion limits:	
Lower:	3.2 Vol %
Upper:	53 Vol %
Vapor pressure at 20 °C (68 °F):	210 hPa (157.5 mm Hg)
Density at 20 °C (68 °F):	1.3035 g/cm ³ (10.87771 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/wate	e r): Not determined.
Viscosity:	
Dynamic:	Not determined.
Kinematic:	Not determined.
Solvent content:	
Organic solvents:	10.1 %
VOC content:	10.12 %
	131.9 g/l / 1.10 lb/gal
Solids content:	0.0 %
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	356 mg/kg
Dermal	LD50	2,964 mg/kg
Inhalative		

Primary irritant effect:

• on the skin: Irritant to skin and mucous membranes.

• on the eye: Irritating effect.

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R

• Sensitization: No sensitizing effects known.

 \cdot Additional toxicological information:

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

Harmful

Irritant

· Carcinogenic categories

· IARC (International Agency for Research on Cancer)

CAS: 67-66-3 Chloroform

· NTP (National Toxicology Program)

CAS: 67-66-3 Chloroform

· 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 3 (Self-assessment): extremely hazardous for water

Do not allow product to reach ground water, water course or sewage system, even in small quantities.

Danger to drinking water if even extremely 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	UN1992
UN proper shipping name	
DOT	Flammable liquids, toxic, n.o.s. (Methanol, Chloroform)

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IMDG, IATA	FLAMMABLE LIQUID, TOXIC, N.O.S. (Methanol, Chloroform,
Transport hazard class(es)	
-	
DOT	
3	
Class	3 Flammable liquids
Label	3, 6.1
IMDG	
3 6	
	2 Flammahla liawida
Class Label	3 Flammable liquids 3/6.1
	J/0.1
IATA	
3 6	
Class	3 Flammable liquids
Label	3 (6.1)
Packing group	
	II
Environmental hazards:	
Marine pollutant:	No
Special precautions for user	Warning: Flammable liquids
Hazard identification number (Kemler code):	
EMS Number:	F-E,S-D
Stowage Category Stowage Code	<i>B</i> <i>SW2 Clear of living quarters.</i>
-	Sw2 Clear of living quarters.
Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	Not applicable
	Not applicable.
Transport/Additional information:	
DOT	
Quantity limitations	On passenger aircraft/rail: 5 L
	On cargo aircraft only: 60 L
IMDG	
Limited quantities (LQ)	
Excepted quantities (EQ)	Code: E2 Maximum nat quantity par inner packaging: 30 ml
	Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
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· UN "Model Regulation":

UN 1992 FLAMMABLE LIQUID, TOXIC, N.O.S. (METHANOL, CHLOROFORM), 3 (6.1), II

15 Regulatory information

• Safety, health and environmental regulations/legislation specific for the substance or mixture No further relevant information available.

• Sara Section 355 (extremely hazardous substances): CAS: 67-66-3 Chloroform • Section 313 (Specific toxic chemical listings): All ingredients are listed. TSCA (Toxic Substances Control Act): Chloroform ACTIVE Ethylene Glycol ACTIVE Methanol ACTIVE · Hazardous Air Pollutants All ingredients are listed. · Proposition 65 · Chemicals known to cause cancer: CAS: 67-66-3 Chloroform · 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: All ingredients are listed. · Carcinogenic categories · EPA (Environmental Protection Agency) CAS: 67-66-3 Chloroform B2, L, NL · TLV (Threshold Limit Value)

CAS: 67-66-3ChloroformA3CAS: 107-21-1Ethylene GlycolA4• NIOSH-Ca (National Institute for Occupational Safety and Health)

CAS: 67-66-3 Chloroform

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



· Signal word Danger

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· Hazard-determining components of labeling:	
Chloroform	
Methanol	
Ethylene Glycol	
· Hazard statements	
Highly flammable liquid and vapor.	
Harmful if swallowed.	
Toxic if inhaled.	
Causes skin irritation.	
Causes serious eye irritation.	
Suspected of causing cancer.	
Suspected of damaging fertility or the unborn child.	
Causes damage to the central nervous system and the visual organs.	
Causes damage to the central nervous system, the kidneys, the liver and the respiratory system	through prolonged
or repeated exposure.	01 0
· 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.	
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: Call a poison center/doctor if you feel unwell.	
Rinse mouth.	
If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/show	er.
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 prese	nt and easy to do.
Continue rinsing.	2
IF exposed or concerned: Get medical advice/attention.	
Specific treatment (see on this label).	
Get medical advice/attention if you feel unwell.	
Take off contaminated clothing and wash it before reuse.	
If skin irritation occurs: Get medical advice/attention.	
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 regulation	ons.
• 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:

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Date of Preparation / Last Revision:	
Date of preparation / last revision	
Revision 1.2, 08-15-2024: Reviewed SDS for accuracy. STN/GW	
Revision 0.0 Creation date for SDS 12-03-2014. STN	
08/15/2024 / 1.1	
· 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	
Acute Toxicity - Oral 4: Acute toxicity – Category 4	
Acute Toxicity - Inhalation 3: Acute toxicity – Category 3	
Skin Irritation 2: Skin corrosion/irritation – Category 2	
Eye Irritation 2A: Serious eye damage/eye irritation – Category 2A	
Carcinogenicity 2: Carcinogenicity – Category 2	
Toxic to Reproduction 2: Reproductive toxicity – Category 2	
Specific Target Organ Toxicity - Single Exposure 1: Specific target organ toxicity (single exposure) – Category 1	
Specific Target Organ Toxicity - Repeated Exposure 1: Specific target organ toxicity (repeated exposure) – Category 1	
• * Data compared to the previous version altered.	