Printing date 06/11/2024

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Reviewed on 06/11/2024

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l Identification		
· Product identifier		
• Trade name: <u>Chemical Blen</u> in 2-Methoxye		
• Article number: FIS067		
• Details of the supplier of the • Manufacturer/Supplier: Aqua Solutions, Inc. 6913 Highway 225 DEER PARK, TX 77536 USA 800-256-2586	e safety data sheet	AQUA SOLUTIONS
 Information department: Technical Coordinator Sherman Nelson shermann@ Emergency telephone numb Chemtrec: 800-424-9300 Canutec: 613-996-6666 		
2 Hazard(s) identification · Classification of the substan		
GHS02 Flame		
\mathbf{A}	H226 Flammable liquid and va	<i>por.</i>
GHS08 Health ha	zard	
Toxic to Reproduction 1B	H360 May damage fertility or t	the unborn child.
GHS07		
Acute Toxicity - Oral 4	H302 Harmful if swallowed.	
Acute Toxicity - Dermal 4	H312 Harmful in contact with s	skin.
Acute Toxicity - Inhalation 4	H332 Harmful if inhaled.	
 Label elements GHS label elements The pro- Hazard pictograms 	oduct is classified and labeled acc	cording to the Globally Harmonized System (GHS).
GHS02 GHS07 GHS0	δ	
· Signal word Danger		
 Signal word Danger Hazard-determining compo Ethylene Glycol Monomethy 		

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Trade name: Chemical Blend #4 in 2-Methoxyethanol Reviewed on 06/11/2024

	(Contd. of page
Hazard statements	
Flammable liquid and vapor.	
Harmful if swallowed, in contact with skin or if inhaled.	
May damage fertility or the unborn child.	
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.	
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.	
Avoid breathing 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 exposed or concerned: Get medical advice/attention.	
Specific treatment (see on this label).	
Take off 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 cool.	
Store locked up.	
Dispose of contents/container in accordance with local/regional/national/international regulation	IS.
Classification system:	
NFPA ratings (scale 0 - 4)	
Health = 1	
$\frac{1}{Fire = 2}$	
$\frac{1}{1} \frac{1}{1} \frac{1}$	
Keuchvily = 0	
HMIS-ratings (scale 0 - 4)	
HEALTH *1 $Health = *1$	
FIRE 2 $Fire = 2$	
REACTIVITY Reactivity = 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.

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Trade name: Chemical Blend #4 in 2-Methoxyethanol

		(Contd. of page 2)	
· Dangerous com	ponents:		
Ethylene Glycol	l Monomethyl Ether	99.07%	
· Table of Nonhazardous Ingredients			
CAS: 78-78-4	2-Methylbutane (Isopentane)	0.5%	
CAS: 108-90-7	Chlorobenzene	0.25%	
CAS: 64-17-5	Ethyl Alcohol, Absolute 200 Proof	0.18%	

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.

• After inhalation:

Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist. In case of unconsciousness place patient stably in side position for transportation.

- · After skin contact: Immediately rinse with water.
- · After eye contact: Rinse opened eye for several minutes under running water.
- · 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.*

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 No further relevant information available.
- · Advice for firefighters
- · Protective equipment: Mouth respiratory protective device.

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.

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Trade name: Chemical Blend #4 in 2-Methoxyethanol

· Protective Actio	on Criteria for Chemicals	(Contd. of page 2	
· PAC-1:			
	Ethylene Glycol Monomethyl Ether	0.3 ppm	
CAS: 78-78-4	2-Methylbutane (Isopentane)	3000* ppm	
CAS: 108-90-7	Chlorobenzene	10 ppm	
CAS: 64-17-5	S: 64-17-5 Ethyl Alcohol, Absolute 200 Proof		
· PAC-2:			
	Ethylene Glycol Monomethyl Ether	14 ppm	
CAS: 78-78-4	2-Methylbutane (Isopentane)	33000*** ppn	
CAS: 108-90-7	Chlorobenzene	150 ppm	
CAS: 64-17-5	Ethyl Alcohol, Absolute 200 Proof	3300* ppm	
· PAC-3:			
	Ethylene Glycol Monomethyl Ether	2000* ppm	
CAS: 78-78-4	2-Methylbutane (Isopentane)	200000 ppn	
CAS: 108-90-7	Chlorobenzene	400 ppm	
CAS: 64-17-5	Ethyl Alcohol, Absolute 200 Proof	15000* ppn	

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: No special requirements.
- · Information about storage in one common storage facility: Not required.
- Further information about storage conditions: Keep receptacle tightly sealed.

• 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

· Components with limit values that require monitoring at the workplace:

Ethylene Glycol Monomethyl Ether

PEL Long-term value: 80 mg/m³, 25 ppm Skin

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DEL	(Contd. of page
REL	Long-term value: 0.3 mg/m³, 0.1 ppm Skin
TLV	Long-term value: 0.1 ppm
	Skin; BEI
WEEL	Skin; B
Ingredi	ents with biological limit values:
Ethylen	ne Glycol Monomethyl Ether
	mg/g creatinine
	D50 Intraperitoneal: urine
	me: end of shift at end of workweek
	D50: 2-Methoxyacetic acid
Additio	nal information: The lists that were valid during the creation were used as basis.
	are controls
	al protective equipment:
	l protective and hygienic measures:
	way from foodstuffs, beverages and feed. Tately remove all soiled and contaminated clothing.
	ands before breaks and at the end of work.
	rotective clothing separately.
	contact with the eyes and skin.
	ing equipment:
	of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure u
	tory protective device that is independent of circulating air.
· Protect	ion of hands:
I	
Mu V	Protective gloves
The glo	we material has to be impermeable and resistant to the product/ the substance/ the preparation.
	missing tests no recommendation to the glove material can be given for the product/ the preparation/ the
	al mixture.
	on of the glove material on consideration of the penetration times, rates of diffusion and the degradation
	ul of gloves
	ection of the suitable gloves does not only depend on the material, but also on further marks of quality a from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance
	we material can not be calculated in advance and has therefore to be checked prior to the application.
	tion time of glove material
	act break through time has to be found out by the manufacturer of the protective gloves and has to
observe	
Eye pro	ptection:
	Tightly sealed goggles

· Body protection: Protective work clothing

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Information on basic physical and cl	hemical properties
General Information	
Appearance:	
Form:	Liquid
Color:	Colorless
Odor: Odor threshold:	Characteristic Not determined.
<i>pH-value at 20 °C (68 °F):</i>	4-7
Change in condition	95 °C (101 °E)
Melting point/Melting range: Boiling point/Boiling range:	-85 °C (-121 °F) 124-125 °C (255.2-257 °F)
Flash point:	38 °C (100.4 °F)
Flammability (solid, gaseous):	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/vapo mixtures are possible.
Explosion limits:	
Lower:	2.4 Vol %
Upper:	20.6 Vol %
Vapor pressure at 20 °C (68 °F):	10 hPa (7.5 mm Hg)
Density at 20 °C (68 °F):	0.96331 g/cm ³ (8.03882 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/water	r): Not determined.
Viscosity:	
Dynamic at 20 °C (68 °F):	1.7 mPas
Kinematic:	Not determined.
Solvent content:	
Organic solvents:	99.8 %
VOC content:	99.75 %
	960.9 g/l / 8.02 lb/gal
Solids content:	0.2 %
Other information	No further relevant information available.

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Trade name: Chemical Blend #4

in 2-Methoxyethanol

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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	505 mg/kg
Dermal	LD50	1,110 mg/kg
Inhalative	LC50/4h	11.1 mg/l

· Primary irritant effect:

• on the skin: No irritant effect.

• on the eye: No irritating effect.

• Sensitization: No sensitizing effects known.

· Additional toxicological information:

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

· Carcinogenic categories

· IARC (International Agency for Research on Cancer)

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

· NTP (National Toxicology Program)

None of the ingredients is listed.

· OSHA-Ca (Occupational Safety & Health Administration)

None of the ingredients is listed.

12 Ecological information

· Toxicity

- · Aquatic toxicity: No further relevant information available.
- · Persistence and degradability No further relevant information available.
- · Behavior in environmental systems:
- · Bioaccumulative potential No further relevant information available.
- · Mobility in soil No further relevant information available.
- Additional ecological information:

· General notes:

Water hazard class 2 (Self-assessment): hazardous for water Do not allow product to reach ground water, water course or sewage system. Danger to drinking water if even small quantities leak into the ground.

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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.

· UN-Number	
· DOT, IMDG, IATA	UN1197
· UN proper shipping name	
$\cdot DOT$	Extracts, flavoring, liquid
·IMDG	EXTRACTS, LIQUID
·IATA	Extracts, liquid
· Transport hazard class(es)	
·DOT	
Rumane Loug	
3	
· Class	3 Flammable liquids
· Label	3
· IMDG, IATA	
· Class	3 Flammable liquids
· Label	3
· Packing group	
· DOT, IMDG, IATA	III
· Environmental hazards:	Not applicable.
· Special precautions for user	Warning: Flammable liquids
· Hazard identification number (Kem	
· EMS Number:	F- E , S - D
· Segregation groups	(SGG10) Liquid halogenated hydrocarbons
· Stowage Category	A

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	(Contd. of page 8)
• 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: 60 L
	On cargo aircraft only: 220 L
· IMDG	
· Limited quantities (LQ)	5L
\cdot Excepted quantities ($\widetilde{E}Q$)	Code: E1
	Maximum net quantity per inner packaging: 30 ml
	Maximum net quantity per outer packaging: 1000 ml
· UN ''Model Regulation'':	UN 1197 EXTRACTS, LIQUID, 3, III

15 Regulatory information

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

Section 355 (ex	tremely hazardous substances):	
None of the ing	redients is listed.	
Section 313 (Sp	ecific toxic chemical listings):	
	Ethylene Glycol Monomethyl Ether	
CAS: 108-90-7	Chlorobenzene	
TSCA (Toxic Si	ubstances Control Act):	
Ethylene Glycol	Monomethyl Ether	ACTIV
2-Methylbutane	(Isopentane)	ACTIV
Chlorobenzene		ACTIV
Ethyl Alcohol, A	Absolute 200 Proof	ACTIV
Hazardous Air	Pollutants	
CAS: 108-90-7	Chlorobenzene	
Proposition 65		
Chemicals know	wn to cause cancer:	
None of the ing	redients is listed.	
Chemicals know	wn to cause reproductive toxicity for females:	
None of the ing	redients is listed.	
Chemicals know	wn to cause reproductive toxicity for males:	
Ethylene Glycol	Monomethyl Ether	
Chemicals know	wn to cause developmental toxicity:	
1	Ethylene Glycol Monomethyl Ether	
CAS: 64-17-5	Ethyl Alcohol, Absolute 200 Proof	
		(Contd. on page 1

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Trade name: Chemical Blend #4 in 2-Methoxyethanol

· Carcinogenic categories

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· EPA (Environmental Protection Agency)	
CAS: 108-90-7 Chlorobenzene	D
· TLV (Threshold Limit Value)	
CAS: 108-90-7 Chlorobenzene	A3
CAS: 64-17-5 Ethyl Alcohol, Absolute 200 Proof	A3
· NIOSH-Ca (National Institute for Occupational Safety and Health)	I
None of the ingredients is listed.	
• GHS label elements The product is classified and labeled according to the Globally Harm	onized System (GHS).
· Hazard pictograms	• • •
GHS02 GHS07 GHS08	
· Signal word Danger	
• Hazard-determining components of labeling: Ethylene Glycol Monomethyl Ether	
· Hazard statements	
Flammable liquid and vapor.	
Harmful if swallowed, in contact with skin or if inhaled.	
May damage fertility or the unborn child.	
· 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.	
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.	
Avoid breathing 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 exposed or concerned: Get medical advice/attention.	
Specific treatment (see on this label).	
Take off 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 cool.	
Store locked up.	1
Dispose of contents/container in accordance with local/regional/national/international reg	<i>gulations.</i>

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· 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 06/11/2024 / 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 3: Flammable liquids – Category 3 Acute Toxicity - Oral 4: Acute toxicity - Category 4 Toxic to Reproduction 1B: Reproductive toxicity - Category 1B \cdot * Data compared to the previous version altered.