Printing date 06/11/2024

\*

Reviewed on 06/11/2024

Identification		
Product identifier		
Trade name: Chemical Blevin 2-Methoxye		
Article number: FIS066		
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		
Hazard(s) identification	n	
GHS02 Flame		
Flammable Liquids 1 GHS08 Health ha	H224 Extremely flammable liquid a	and vapor.
	nzard	
GHS08 Health ha	nzard	
GHS08 Health ha Toxic to Reproduction 1B	nzard	
GHS08 Health ha Toxic to Reproduction 1B GHS07	azard H360 May damage fertility or the u H302 Harmful if swallowed. H312 Harmful in contact with skin	nborn child.
GHS08 Health ha Toxic to Reproduction 1B GHS07 Acute Toxicity - Oral 4 Acute Toxicity - Dermal 4 Acute Toxicity - Inhalation 4 Label elements	nzard H360 May damage fertility or the t H302 Harmful if swallowed. H312 Harmful in contact with skin 4 H332 Harmful if inhaled.	nborn child.
GHS08 Health ha Toxic to Reproduction 1B GHS07 Acute Toxicity - Oral 4 Acute Toxicity - Dermal 4 Acute Toxicity - Inhalation 4 Label elements GHS label elements The pro	nzard H360 May damage fertility or the t H302 Harmful if swallowed. H312 Harmful in contact with skin 4 H332 Harmful if inhaled.	nborn child.
GHS08 Health ha Toxic to Reproduction 1B GHS07 Acute Toxicity - Oral 4 Acute Toxicity - Dermal 4 Acute Toxicity - Inhalation 4 Label elements GHS label elements The pro	nzard H360 May damage fertility or the t H302 Harmful if swallowed. H312 Harmful in contact with skin 4 H332 Harmful if inhaled. oduct is classified and labeled accord	nborn child.
GHS08 Health ha Toxic to Reproduction 1B GHS07 Acute Toxicity - Oral 4 Acute Toxicity - Dermal 4 Acute Toxicity - Inhalation 4 Label elements GHS label elements The pro Hazard pictograms	nzard H360 May damage fertility or the t H302 Harmful if swallowed. H312 Harmful in contact with skin 4 H332 Harmful if inhaled. oduct is classified and labeled accord	nborn child.
GHS08 Health ha Toxic to Reproduction 1B GHS07 Acute Toxicity - Oral 4 Acute Toxicity - Dermal 4 Acute Toxicity - Inhalation 4 Label elements GHS label elements The pro Hazard pictograms	Azard H360 May damage fertility or the u H302 Harmful if swallowed. H312 Harmful in contact with skin 4 H332 Harmful if inhaled. oduct is classified and labeled accord 08	nborn child.

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#### Trade name: Chemical Blend #3 in 2-Methoxyethanol

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	(Contd. of page 1)
· Hazard statements	
Extremely 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.	S.
· Classification system:	
· NFPA ratings (scale 0 - 4)	
Health = 1	
$\frac{4}{Fire} = 4$	
$\frac{1}{Reactivity} = 0$	
· HMIS-ratings (scale 0 - 4)	
<b>HEALTH</b> 1 $Health = *1$	
FIRE 4 $Fire = 4$	
<b>REACTIVITY</b> Reactivity = $0$	
· Other hazards	
· Results of PBT and vPvB assessment	
• <b>PBT:</b> Not applicable.	
• <b>vPvB:</b> 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 #3 in 2-Methoxyethanol

		(Contd. of page 2)
<ul> <li>Dangerous con</li> </ul>	pponents:	
	Ethylene Glycol Monomethyl Ether	93.0%
CAS: 78-78-4	2-Methylbutane (Isopentane)	5.0%
CAS: 64-17-5	Ethyl Alcohol, Absolute 200 Proof	1.0%
CAS: 108-90-7	Chlorobenzene	1.0%

#### 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 product to reach sewage system or any water course. Inform respective authorities in case of seepage into water course or sewage system. 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.

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### Safety Data Sheet acc. to OSHA HCS

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Trade name: Chemical Blend #3 in 2-Methoxyethanol Reviewed on 06/11/2024

#### See Section 13 for disposal information. • Protective Action Criteria for Chemicals

PAC-1:			
	Ethylene Glycol Monomethyl Ether	0.	.3 ppm
CAS: 78-78-4	2-Methylbutane (Isopentane)	31	000* ppm
CAS: 64-17-5	Ethyl Alcohol, Absolute 200 Proof	1,	,800 ppm
CAS: 108-90-7	CAS: 108-90-7 Chlorobenzene		0 ppm
· PAC-2:			
	Ethylene Glycol Monomethyl Ether	14 pp	om
CAS: 78-78-4	2-Methylbutane (Isopentane)	3300	0*** ppm
CAS: 64-17-5	Ethyl Alcohol, Absolute 200 Proof	3300	* ppm
CAS: 108-90-7	Chlorobenzene	150 p	рт
· PAC-3:			
	Ethylene Glycol Monomethyl Ether	200	00* ppm
CAS: 78-78-4	2-Methylbutane (Isopentane)	20	0000 ppm
CAS: 64-17-5	Ethyl Alcohol, Absolute 200 Proof	150	000* ppm
CAS: 108-90-7	Chlorobenzene	400	0 ррт

#### 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.
- 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.

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Frade nam	e: Chemical Blend #3 in 2-Methoxyethanol
	(Contd. of page 4
• <b>Compo</b> The fol exposu	<b>l parameters</b> <b>nents with limit values that require monitoring at the workplace:</b> lowing constituents are the only constituents of the product which have a PEL, TLV or other recommende re limit. time, the remaining constituent has no known exposure limits.
Ethyler	ie Glycol Monomethyl Ether
PEL	Long-term value: 80 mg/m <sup>3</sup> , 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
CAS: 7	8-78-4 2-Methylbutane (Isopentane)
PEL	Long-term value: 2950 mg/m <sup>3</sup> , 1000 ppm
TLV	Long-term value: 1000 ppm
CAS: 6	4-17-5 Ethyl Alcohol, Absolute 200 Proof
PEL	Long-term value: 1900 mg/m <sup>3</sup> , 1000 ppm
REL	Long-term value: 1900 mg/m <sup>3</sup> , 1000 ppm
TLV	Short-term value: 1000 ppm A3
. Ingred	ients with biological limit values:
-	ie Glycol Monomethyl Ether
BEI 1 Ll Ti	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.
<ul> <li>Person</li> <li>General</li> <li>Keep a</li> <li>Immedit</li> <li>Wash h</li> <li>Store p</li> <li>Avoid c</li> <li>Breath</li> <li>In case</li> <li>respiral</li> </ul>	al protective equipment: al protective equipment: al protective and hygienic measures: way from foodstuffs, beverages and feed. ately 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 us tory protective device that is independent of circulating air.
m	ion of hands:

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.

Protective gloves

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation (Contd. on page 6)

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#### Trade name: Chemical Blend #3 in 2-Methoxyethanol

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#### · Material of gloves

(Contd. of page 5)

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

#### 9 Physical and chemical properties · Information on basic physical and chemical properties · General Information · Appearance: Form: Liquid Color: Clear · Odor: *Characteristic* · Odor threshold: Not determined. Not determined. · pH-value: · Change in condition Melting point/Melting range: Undetermined. 28-29 °C (82.4-84.2 °F) Boiling point/Boiling range: -51 °C (-59.8 °F) · Flash point: · Flammability (solid, gaseous): Not applicable. Not determined. · Decomposition temperature: · 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: 2.4 Vol % 20.6 Vol % Upper: · Vapor pressure at 20 °C (68 °F): 10 hPa (7.5 mm Hg) · Density at 20 °C (68 °F): 0.94741 g/cm<sup>3</sup> (7.90614 lbs/gal) · Relative density Not determined. · Vapor density Not determined. · Evaporation rate Not determined. · Solubility in / Miscibility with Not miscible or difficult to mix. Water: · Partition coefficient (n-octanol/water): Not determined.

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Trade name: Chemical Blend #3 in 2-Methoxyethanol	
	(Contd. of page 6)

Dynamic:	Not determined.	
Kinematic:	Not determined.	
· Solvent content:		
Organic solvents:	99.0 %	
VOC content:	99.00 %	
	937.9 g/l / 7.83 lb/gal	
Solids content:	1.0 %	
• 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 (Acu	te Toxicity	Estimate)
Oral	LD50	532 mg/kg

 Dermal
 LD50
 1,183 mg/kg

 Inhalative
 LC50/4h
 11.7 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.

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Trade name: Chemical Blend #3 in 2-Methoxyethanol

(Contd. of page 7)

#### · 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.

· 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
· UN proper shipping name	
DOT	Flammable liquids, n.o.s. (2-Methylbutane (Isopentane), Ethylene
	Glycol Monomethyl Ether)
· IMDG, IATA	FLAMMABLE LIQUID, N.O.S. (2-Methylbutane (Isopentane)
	Ethylene Glycol Monomethyl Ether)
Transport hazard class(es)	
DOT	
R.MMARE LOUR	
· Class	3 Flammable liquids
	(Contd. on page 9

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Trade name: Chemical Blend #3 in 2-Methoxyethanol

	(Contd. of page 3
Label	3
IMDG, IATA	
Class	3 Flammable liquids
Label	3
Packing group	
DOT, IMDG, IATA	II
Environmental hazards:	Not applicable.
Special precautions for user	Warning: Flammable liquids
Hazard identification number (Kemler code):	
EMS Number:	F- $E$ , $S$ - $D$
Stowage Category	Ε
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)	500 ml
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. (2-METHYLBUTAN
	(ISOPENTANE), ETHYLENE GLYCOL MONOMETHY
	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):	
Ethylene Glycol Monomethyl Ether	
CAS: 108-90-7 Chlorobenzene	
· TSCA (Toxic Substances Control Act):	
Ethylene Glycol Monomethyl Ether	ACTIVE
2-Methylbutane (Isopentane)	ACTIVE
Ethyl Alcohol, Absolute 200 Proof	ACTIVE
	(Contd. on page 10)

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A3

A3

## Safety Data Sheet acc. to OSHA HCS

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# Trade name: Chemical Blend #3

in 2-Methoxyethanol

(Cont	td. of page 9)
	ACTIVE

• *Hazardous Air Pollutants* CAS: 108-90-7 Chlorobenzene

· Proposition 65

Chlorobenzene

 $\cdot$  Chemicals known to cause cancer:

None of the ingredients is listed.

 $\cdot$  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

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

#### · Carcinogenic categories

• EPA (Environmental Protection Agency)

CAS: 108-90-7 Chlorobenzene

#### · TLV (Threshold Limit Value)

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

CAS: 108-90-7 Chlorobenzene

## ·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 Chlorobenzene
Hazard statements Extremely 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

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Trade name: Chemical Blend #3 in 2-Methoxyethanol Reviewed on 06/11/2024

(Contd. of page 10)

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