Printing date 06/14/2024

Reviewed on 06/14/2024

## **1** Identification

- · Product identifier
- · Trade name: <u>Karl Fischer Solvent</u>
- · Article number: GEI031
- 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.

GHS06 Skull and crossbones

Acute Toxicity - Oral 3 Acute Toxicity - Dermal 3 Acute Toxicity - Inhalation 3 H301 Toxic if swallowed. H311 Toxic in contact with skin. H331 Toxic if inhaled.

GHS08 Health hazard

Toxic to Reproduction 1AH360 May damage fertility or the unborn child.Specific Target Organ Toxicity - Single Exposure 1H370 Causes damage to the central nervous system and the<br/>visual organs.

GHS07

Skin Irritation 2H315 Causes skin irritation.Eye Irritation 2AH319 Causes serious eye irritation.

· Label elements

• GHS label elements The product is classified and labeled according to the Globally Harmonized System (GHS). (Contd. on page 2)

US

US

## Safety Data Sheet acc. to OSHA HCS

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(Contd. of page 1) · Hazard pictograms GHS06 GHS07 GHS02 GHS Signal word Danger · Hazard-determining components of labeling: Methanol Imidazole, Certified Sulfur Dioxide · Hazard statements Extremely flammable liquid and vapor. Toxic if swallowed, in contact with skin or if inhaled. Causes skin irritation. Causes serious eye irritation. May damage fertility or the unborn child. Causes damage to the central nervous system and the visual organs. · 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: Immediately call a poison center/doctor. Specific treatment (see on this label). 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. Call a poison center/doctor if you feel unwell. Take off immediately all 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 regulations. (Contd. on page 3)

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· Classification system: · NFPA ratings (scale 0 - 4)

4 0Health = 2 Fire = 4 Reactivity = 0

· HMIS-ratings (scale 0 - 4)

HEALTH\*2Health = \*2FIRE4Fire = 4REACTIVITY0Reactivity = 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: 67-56-1	Methanol	97.291%
CAS: 288-32-4	Imidazole, Certified	1.761%
CAS: 7446-09-5	Sulfur Dioxide	0.948%

## 4 First-aid measures

#### · Description of first aid measures

- · General information:
- Immediately remove any clothing soiled by the product.
- 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: Do not induce vomiting; immediately call for medical help.
- 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.

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		(Contd. of page
	arising from the substance or mixture	
Advice for firefis	or in case of fire poisonous gases are produced.	
	ment: Mouth respiratory protective device.	
	ment. mount respiratory protective device.	
Accidental rel	lease measures	
-	tions, protective equipment and emergency procedures	
	ry protective device.	
*	equipment. Keep unprotected persons away.	
Environmental p		
Dilute with plent		
	enter sewers/ surface or ground water. aterial for containment and cleaning up:	
	id-binding material (sand, diatomite, acid binders, universal binders, sawdust).	
	nated material as waste according to section 13.	
Ensure adequate	8	
Reference to oth	er sections	
	er sections information on safe handling.	
See Section 7 for See Section 8 for	information on safe handling. information on personal protection equipment.	
See Section 7 for See Section 8 for See Section 13 fo	information on safe handling. information on personal protection equipment. or disposal information.	
See Section 7 for See Section 8 for See Section 13 for <b>Protective Action</b>	information on safe handling. information on personal protection equipment.	
See Section 7 for See Section 8 for See Section 13 for <b>Protective Action</b> <b>PAC-1:</b>	information on safe handling. information on personal protection equipment. or disposal information.	
See Section 7 for See Section 8 for See Section 13 for <b>Protective Action</b>	information on safe handling. information on personal protection equipment. or disposal information.	530 ppm
See Section 7 for See Section 8 for See Section 13 for <b>Protective Action</b> <b>PAC-1:</b>	information on safe handling. information on personal protection equipment. or disposal information. a <b>Criteria for Chemicals</b>	
See Section 7 for See Section 8 for See Section 13 for <b>Protective Action</b> <b>PAC-1:</b> CAS: 67-56-1	information on safe handling. information on personal protection equipment. or disposal information. <b>a Criteria for Chemicals</b> Methanol Imidazole, Certified	530 ppm 0.66 mg/m 0.20 ppm
See Section 7 for See Section 8 for See Section 13 fo <b>Protective Action</b> <b>PAC-1:</b> CAS: 67-56-1 CAS: 288-32-4	information on safe handling. information on personal protection equipment. or disposal information. <b>a Criteria for Chemicals</b> Methanol Imidazole, Certified	0.66 mg/m
See Section 7 for See Section 8 for See Section 13 fo <b>Protective Action</b> <b>PAC-1:</b> CAS: 67-56-1 CAS: 288-32-4 CAS: 7446-09-5	information on safe handling. information on personal protection equipment. or disposal information. <b>a Criteria for Chemicals</b> Methanol Imidazole, Certified	0.66 mg/m 0.20 ppm
See Section 7 for See Section 8 for See Section 13 fo <b>Protective Action</b> <b>PAC-1:</b> CAS: 67-56-1 CAS: 288-32-4 CAS: 7446-09-5 <b>PAC-2:</b>	information on safe handling. information on personal protection equipment. or disposal information. a Criteria for Chemicals Methanol Imidazole, Certified Sulfur Dioxide	0.66 mg/m
See Section 7 for See Section 8 for See Section 13 for <b>Protective Action</b> <b>PAC-1:</b> CAS: 67-56-1 CAS: 288-32-4 CAS: 7446-09-5 <b>PAC-2:</b> CAS: 67-56-1	information on safe handling. information on personal protection equipment. or disposal information. <b>a Criteria for Chemicals</b> Methanol Imidazole, Certified Sulfur Dioxide Methanol Imidazole, Certified	0.66 mg/m 0.20 ppm 2,100 ppn
See Section 7 for See Section 8 for See Section 13 fo <b>Protective Action</b> <b>PAC-1:</b> CAS: 67-56-1 CAS: 7446-09-5 <b>PAC-2:</b> CAS: 67-56-1 CAS: 288-32-4 CAS: 7446-09-5 <b>PAC-3:</b>	information on safe handling. information on personal protection equipment. or disposal information. <b>a Criteria for Chemicals</b> Methanol Imidazole, Certified Sulfur Dioxide Methanol Imidazole, Certified	0.66 mg/m 0.20 ppm 2,100 ppm 7.3 mg/m <sup>2</sup>
See Section 7 for See Section 8 for See Section 13 for <b>Protective Action</b> <b>PAC-1:</b> CAS: 67-56-1 CAS: 7446-09-5 <b>PAC-2:</b> CAS: 67-56-1 CAS: 288-32-4 CAS: 7446-09-5	information on safe handling. information on personal protection equipment. or disposal information. <b>a Criteria for Chemicals</b> Methanol Imidazole, Certified Sulfur Dioxide Methanol Imidazole, Certified	0.66 mg/m 0.20 ppm 2,100 ppm 7.3 mg/m <sup>2</sup> 0.75 ppm
See Section 7 for See Section 8 for See Section 13 fo <b>Protective Action</b> <b>PAC-1:</b> CAS: 67-56-1 CAS: 7446-09-5 <b>PAC-2:</b> CAS: 67-56-1 CAS: 288-32-4 CAS: 7446-09-5 <b>PAC-3:</b>	information on safe handling. information on personal protection equipment. or disposal information. <b>a Criteria for Chemicals</b> Methanol Imidazole, Certified Sulfur Dioxide Methanol Imidazole, Certified Sulfur Dioxide	0.66 mg/m 0.20 ppm 2,100 ppn 7.3 mg/m <sup>2</sup>

# 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.

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· 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.
- · Control parameters
- · Components with limit values that require monitoring at the workplace:
- The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit.

At this time, the remaining constituent has no known exposure limits.

CAS.	: 67-56-1 Methanol
PEL	Long-term value: 260 mg/m <sup>3</sup> , 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
	: 7446-09-5 Sulfur Dioxide
PEL	Long-term value: 13 mg/m <sup>3</sup> , 5 ppm
REL	Short-term value: 13 mg/m <sup>3</sup> , 5 ppm
	Long-term value: 5 mg/m <sup>3</sup> , 2 ppm
TLV	Short-term value: 0.25 ppm
	A4
· Ingre	edients with biological limit values:
CAS:	: 67-56-1 Methanol
BEI	15 mg/L
	LD50 Intraperitoneal: urine
	Time: end of shift
	LD50: Methanol (background, nonspecific)
· Addi	tional information: The lists that were valid during the creation were used as basis.
· Expo	osure controls
	onal protective equipment:
	eral protective and hygienic measures:
	away from foodstuffs, beverages and feed.
	ediately remove all soiled and contaminated clothing.
	n hands before breaks and at the end of work. e protective clothing separately.
	d contact with the eyes and skin.
	thing equipment:
	se of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use
	ratory protective device that is independent of circulating air.

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- US

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· 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 General Information	chemical properties
Appearance:	
Form:	Fluid
Color:	Colorless
· Odor: · Odor threshold:	Alcohol-like Not determined.
pH-value:	Not determined.
Change in condition Melting point/Melting range: Boiling point/Boiling range:	-97.8 °C (-144 °F) -10 °C (14 °F)
Flash point:	11 °C (51.8 °F)
Flammability (solid, gaseous):	Not applicable.
Auto igniting:	455 °C (851 °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:	5.5 Vol %
Upper:	44 Vol %

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	(0	Contd. of page
· Vapor pressure at 20 °C (68 °F):	128 hPa (96 mm Hg)	
Density at 20 °C (68 °F):	0.80484 g/cm³ (6.71639 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	<b>r</b> ): Not determined.	
Viscosity:		
Dynamic:	Not determined.	
Kinematic:	Not determined.	
Solvent content:		
Organic solvents:	97.3 %	
VOC content:	97.29 %	
	783.0 g/l / 6.53 lb/gal	
Solids content:	1.8 %	
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:

ATE (Ad	cute Toxici	ty Estimate)
Oral	LD50	102 mg/kg

0.1111		
		308 mg/kg
Inhalative	LC50/4h	3.08 mg/l

#### · Primary irritant effect:

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

- 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: Toxic

Irritant

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3

· Carcinogenic categories

· IARC (International Agency for Research on Cancer)

CAS: 7446-09-5 Sulfur Dioxide

• *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.
- Recommended cleansing agent: Water, if necessary with cleansing agents.

· UN-Number		
· DOT, IMDG, IATA	UN1993	
· UN proper shipping name		
$\cdot DOT$	Flammable liquids, n.o.s. (Methanol)	
· IMDG, IATA	FLAMMABLE LIQUID, N.O.S. (Methanol)	

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• Class       3 Flammable liquids         • Label       3         • IMDG, IATA       3         • Class       3 Flammable liquids         • Label       3         • Class       3 Flammable liquids         • Label       3         • Class       3 Flammable liquids         • Label       3         • Packing group       1         • DOT, IMDG, IATA       II         • Environmental hazards:       Not applicable.         • Special precautions for user       Warning: Flammable liquids         • EMS Number:       · 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:		(Contd. of page
• Class       3 Flammable liquids         • Label       3         • IMDG, IATA       3         • Class       3 Flammable liquids         • Label       3         • Class       3 Flammable liquids         • Label       3         • Class       3 Flammable liquids         • Label       3         • Packing group       1         • DOT, IMDG, IATA       11         • Environmental hazards:       Not applicable.         • Special precautions for user       Warning: Flammable liquids         • EMS Number:       · 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:	· Transport hazard class(es)	
Label       3         IMDG, IATA       Implication         Implication       3         Packing group       3         Label       3         Packing group       11         DOT, IMDG, IATA       II         Environmental hazards:       Not applicable.         Special precautions for user       Warning: Flammable liquids         Hazard identification number (Kemler code): 338       38         EMS Number:       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	
Label       3         · IMDG, IATA       3         · MDG, IATA       1         · Label       3         · Label       3         · Packing group       3         · DOT, IMDG, IATA       II         · Environmental hazards:       Not applicable.         · Special precautions for user       Warning: Flammable liquids         · Hazard identification number (Kemler code): 338       538         · EMS Number:       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:		
Label       3         · IMDG, IATA       3         · MDG, IATA       1         · Label       3         · Label       3         · Packing group       3         · DOT, IMDG, IATA       II         · Environmental hazards:       Not applicable.         · Special precautions for user       Warning: Flammable liquids         · Hazard identification number (Kemler code): 338       538         · EMS Number:       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:		
Label       3         · IMDG, IATA       3         · MDG, IATA       1         · Label       3         · Label       3         · Packing group       3         · DOT, IMDG, IATA       II         · Environmental hazards:       Not applicable.         · Special precautions for user       Warning: Flammable liquids         · Hazard identification number (Kemler code): 338       538         · EMS Number:       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:	3	
Label       3         · IMDG, IATA       3         · MDG, IATA       1         · Label       3         · Label       3         · Packing group       3         · DOT, IMDG, IATA       II         · Environmental hazards:       Not applicable.         · Special precautions for user       Warning: Flammable liquids         · Hazard identification number (Kemler code): 338       538         · EMS Number:       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:		
<ul> <li>IMDG, IATA</li> <li>IMDG, IATA</li> <li>IMDG, IATA</li> <li>IMDG, IATA</li> <li>Class</li> <li>3 Flammable liquids</li> <li>Label</li> <li>3</li> <li>Packing group</li> <li>DOT, IMDG, IATA</li> <li>II</li> <li>Environmental hazards:</li> <li>Not applicable.</li> <li>Special precautions for user</li> <li>Warning: Flammable liquids</li> <li>Hazard identification number (Kemler code): 338</li> <li>EMS Number:</li> <li>F-E,S-E</li> <li>Stowage Category</li> <li>E</li> <li>Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code</li> <li>Not applicable.</li> <li>Transport/Additional information:</li> <li>DOT</li> <li>Quantity limitations</li> <li>On passenger aircraft/rail: 1 L On cargo aircraft only: 30 L</li> <li>IMDG</li> <li>Limited quantities (LQ)</li> <li>Code: E3 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 30 ml</li> </ul>		-
• Class       3 Flammable liquids         • Label       3         • Packing group       1         • DOT, IMDG, IATA       II         • Environmental hazards:       Not applicable.         • Special precautions for user       Warning: Flammable liquids         • Hazard identification number (Kemler code): 338       8         • EMS Number:       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       0         • Limited quantities (LQ)       0         • Excepted quantities (EQ)       Code: E3 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 300 ml		
Label3Packing group • DOT, IMDG, IATAIIEnvironmental hazards:Not applicable.Special precautions for userWarning: Flammable liquids• Hazard identification number (Kemler code):338• EMS Number:F-E,S-E• Stowage CategoryE• Transport in bulk according to Annex II of MARPOL73/78 and the IBC CodeNot applicable.• Transport in bulk according to Annex II of MARPOL73/78 and the IBC CodeNot applicable.• DOT • Quantity limitationsOn passenger aircraft/rail: 1 L On cargo aircraft only: 30 L• IMDG • Limited quantities (LQ)0• Excepted quantities (EQ)Code: E3 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 300 ml	· IMDG, IATA	
Label3Packing group • DOT, IMDG, IATAIIEnvironmental hazards:Not applicable.Special precautions for userWarning: Flammable liquids• Hazard identification number (Kemler code):338• EMS Number:F-E,S-E• Stowage CategoryE• Transport in bulk according to Annex II of MARPOL73/78 and the IBC CodeNot applicable.• Transport in bulk according to Annex II of MARPOL73/78 and the IBC CodeNot applicable.• DOT • Quantity limitationsOn passenger aircraft/rail: 1 L On cargo aircraft only: 30 L• IMDG • Limited quantities (LQ)0• Excepted quantities (EQ)Code: E3 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 300 ml		
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Packing group DOT, IMDG, IATAIIEnvironmental hazards:Not applicable.Special precautions for userWarning: Flammable liquidsHazard identification number (Kemler code): 338EMS Number:F-E,S-EStowage CategoryETransport in bulk according to Annex II of MARPOL73/78 and the IBC CodeNot applicable.Transport/Additional information:On passenger aircraft/rail: 1 L On cargo aircraft only: 30 LIMDGImited quantities (LQ)0Excepted quantities (EQ)Code: E3 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 300 ml		-
DOT, IMDG, IATAII• Environmental hazards:Not applicable.• Special precautions for userWarning: Flammable liquids• Hazard identification number (Kemler code):338• EMS Number:F-E,S-E• Stowage CategoryE• Transport in bulk according to Annex II of MARPOL73/78 and the IBC CodeNot applicable.• Transport/Additional information:Not applicable.• DOT • Quantity limitationsOn passenger aircraft/rail: 1 L On cargo aircraft only: 30 L• IMDG • Limited quantities (LQ)0• Excepted quantities (EQ)Code: E3 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 300 ml	· Label	3
• Environmental hazards:Not applicable.• Special precautions for userWarning: Flammable liquids• Hazard identification number (Kemler code):338• EMS Number:F-E,S-E• Stowage CategoryE• Transport in bulk according to Annex II of MARPOL73/78 and the IBC CodeNot applicable.• Transport/Additional information:Not applicable.• DOTQuantity limitationsOn passenger aircraft/rail: 1 L On cargo aircraft only: 30 L• IMDG0• Limited quantities (LQ)0• Excepted quantities (EQ)Code: E3 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 300 ml		
Special precautions for user       Warning: Flammable liquids         Hazard identification number (Kemler code): 338       338         EMS Number:       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:       Not applicable.         • DOT       On passenger aircraft/rail: 1 L On cargo aircraft only: 30 L         • IMDG       0         • Limited quantities (LQ)       0         • Excepted quantities (EQ)       O         Code: E3       Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 300 ml		
Hazard identification number (Kemler code): 338         EMS Number:       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:       Not applicable.         DOT       Quantity limitations         Quantity limitations       On passenger aircraft/rail: 1 L On cargo aircraft only: 30 L         IMDG       0         Excepted quantities (LQ)       0         Excepted quantities (EQ)       Code: E3 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 300 ml	· Environmental hazards:	Not applicable.
EMS Number:F-E,S-EStowage CategoryETransport in bulk according to Annex II of MARPOL73/78 and the IBC CodeNot applicable.Transport/Additional information:Not applicable.DOTOn passenger aircraft/rail: 1 L On cargo aircraft only: 30 LIMDG0Limited quantities (LQ)0Excepted quantities (EQ)Code: E3 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 300 ml		
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Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 300 ml		
Maximum net quantity per outer packaging: 300 ml	$\cdot$ Excepted quantities (EQ)	
(1) $(1)$	· UN "Model Regulation":	UN 1993 FLAMMABLE LIQUID, N.O.S. (METHANOL), 3, II

# **15 Regulatory information**

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

· Sara

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· Section 355 (extremely hazardous substances):

CAS: 7446-09-5 Sulfur Dioxide

· Section 313 (Specific toxic chemical listings):

CAS: 67-56-1 Methanol

(Contd. on page 10)

<sup>–</sup> US

Printing date 06/14/2024

Reviewed on 06/14/2024

#### Trade name: Karl Fischer Solvent

	(Contd. of page 9)
· TSCA (Toxic Substances Control Act):	
Methanol	ACTIVE
Imidazole, Certified	ACTIVE
Sulfur Dioxide	ACTIVE
· 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: 67-56-1 Methanol

CAS: 7446-09-5 Sulfur Dioxide

#### · Carcinogenic categories

· EPA (Environmental Protection Agency)

None of the ingredients is listed.

· TLV (Threshold Limit Value)

CAS: 7446-09-5 Sulfur Dioxide

· 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: Methanol Imidazole, Certified Sulfur Dioxide
Hazard statements Extremely flammable liquid and vapor. Toxic if swallowed, in contact with skin or if inhaled. Causes skin irritation. Causes serious eye irritation. May damage fertility or the unborn child. Causes damage to the central nervous system and the visual organs.
Precautionary statements Obtain special instructions before use. Do not handle until all safety precautions have been read and understood.

*Do not nanale until all safety precautions have been read and understood. Keep away from heat/sparks/open flames/hot surfaces. - No smoking.*  A4

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#### Trade name: Karl Fischer Solvent

(Contd. of page 10)
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: Immediately call a poison center/doctor.
Specific treatment (see on this label).
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.
Call a poison center/doctor if you feel unwell.
Take off immediately all 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 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 0.1, 06/14/2024: Reviewed SDS for accuracy. MH/STN Revision 0.0, 05-29-2024: Creation date for SDS. STN 06/14/2024 / 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

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## Safety Data Sheet acc. to OSHA HCS

Printing date 06/14/2024

Reviewed on 06/14/2024

#### Trade name: Karl Fischer Solvent

REL: Recommended Exposure Limit BEI: Biological Exposure Limit Flammable Liquids 1: Flammable liquids – Category 1 Acute Toxicity - Oral 3: Acute toxicity – Category 3 Skin Irritation 2: Skin corrosion/irritation – Category 2 Eye Irritation 2A: Serious eye damage/eye irritation – Category 2A Toxic to Reproduction 1A: Reproductive toxicity – Category 1A Specific Target Organ Toxicity - Single Exposure 1: Specific target organ toxicity (single exposure) – Category 1 • \* Data compared to the previous version altered.

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