Printing date 12/06/2017

Reviewed on 12/06/2017

Identification	
Product identifier	
Trade name: Potassium Iodide	
in MeOH/Water	
• Article number: MIL038	
 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 	AQUA SOLUTIONS
• Information department: Technical Coordinator Sherman Nelson sherman@aquasolutions.org • Emergency telephone number: Chemtrec: 800-424-9300 Canutec: 613-996-6666	
Hazard(s) identification	
Classification of the substance or mixture	
GHS02 Flame	
Flam. Liq. 3 H226 Flammable liquid and vapor.	
GHS08 Health hazard	
STOT SE 2 H371 May cause damage to organs.	
GHS07	
Acute Tox. 4 H302 Harmful if swallowed.	
Skin Irrit. 2 H315 Causes skin irritation.	
Eye Irrit. 2A H319 Causes serious eye irritation.	
 Label elements GHS label elements The product is classified and labeled accordi Hazard pictograms 	ing to the Globally Harmonized System (GHS)
GHS02 GHS07 GHS08	
· Signal word Warning	
Hazard-determining components of labeling:	
Potassium Iodide	
Methanol (Methyl Alcohol)	(Contd. on pag

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Trade name: Potassium Iodide in MeOH/Water

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(Contd. on page 3)

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HEALTH '2 FIRE 1 REACTIVITY 0 · Other hazards · Results of PBT and vPvB assessment · PBT: Not applicable.	
FIRE 1 FIRE 1 REACTIVITY 0 Cother hazards • Other hazards • Results of PBT and vPvB assessment • PBT: Not applicable.	· HMIS-ratings (scale 0 - 4)
FIRE 1 FIRE 1 FIRE 1 Fire = 1 Reactivity = 0 • Other hazards • Results of PBT and vPvB assessment • PBT: Not applicable.	HEALTH *2 $Health = *2$
REACTIVITY 0 Reactivity = 0 • Other hazards • Results of PBT and vPvB assessment • PBT: Not applicable.	
• Other hazards • Results of PBT and vPvB assessment • PBT: Not applicable.	
• Results of PBT and vPvB assessment • PBT: Not applicable.	
• <i>PBT:</i> Not applicable.	· Other hazards
	· Results of PBT and vPvB assessment
• vPvB: Not applicable.	• <i>PBT:</i> Not applicable.
	· vPvB: Not applicable.
3 Composition/information on ingredients	3 Composition/information on ingredients

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

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Trade name: Potassium Iodide in MeOH/Water

		(Contd. of page 2)	
· Dangerous comp	· Dangerous components:		
CAS: 7681-11-0	Potassium Iodide	51.065%	
CAS: 67-56-1	Methanol (Methyl Alcohol)	8.084%	
	· Table of Nonhazardous Ingredients		
CAS: 7732-18-5	Water	40.852%	

4 First-aid measures

· Description of first aid measures

• General information:

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

- After inhalation: 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.
- \cdot Indication of any immediate medical attention and special treatment needed
- No further relevant information available.

5 *Fire-fighting measures*

- · Extinguishing media
- Suitable extinguishing agents:
- CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- Special hazards arising from the substance or mixture No further relevant information available.
- · Advice for firefighters
- · Protective equipment: No special measures required.

6 Accidental release measures

- *Personal precautions, protective equipment and emergency procedures 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 item 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.

(Contd. on page 4)

US -

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Trade name: Potassium Iodide in MeOH/Water

· Protective Actio	n Criteria for Chemicals	(Contd. of page 3
<i>PAC-1:</i>		
CAS: 7681-11-0	Potassium Iodide	1.3 mg/m ³
CAS: 67-56-1	Methanol (Methyl Alcohol)	530 ppm
· PAC-2:	·	
CAS: 7681-11-0	Potassium Iodide	15 mg/m ³
CAS: 67-56-1	Methanol (Methyl Alcohol)	2,100 ppm
· PAC-3:	·	
CAS: 7681-11-0	Potassium Iodide	87 mg/m ³
CAS: 67-56-1	Methanol (Methyl Alcohol)	7200* ppm

7 Handling and storage

· Handling:

- · Precautions for safe handling No special precautions are necessary if used correctly.
- Information about protection against explosions and fires: Keep ignition sources away - Do not smoke. Protect against electrostatic charges.
- · 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 item 7.
- · Control parameters

· Comp	ponents with limit values that require monitoring at the workplace:
CAS:	7681-11-0 Potassium Iodide
TLV	Long-term value: 0.01* ppm *as inhalable fraction and vapor
CAS:	67-56-1 Methanol (Methyl Alcohol)
PEL	Long-term value: 260 mg/m ³ , 200 ppm
	Short-term value: 325 mg/m³, 250 ppm
	Long-term value: 260 mg/m ³ , 200 ppm
	Skin
TLV	Short-term value: 328 mg/m ³ , 250 ppm
	Long-term value: 262 mg/m ³ , 200 ppm
	Skin; BEI
	(Contd. on page 5)

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Trade name: Potassium Iodide in MeOH/Water Reviewed on 12/06/2017

(Contd. of page 4)

· Ingredients with biological limit values:

CAS: 67-56-1 Methanol (Methyl Alcohol)

BEI 15 mg/L

LD50 Intraperitoneal: urine Time: end of shift LD50: Methanol (background, nonspecific)

· Additional information: The lists that were valid during the creation were used as basis.

· Exposure controls

- · Personal protective equipment:
- General protective and hygienic measures: Keep away from foodstuffs, beverages and feed.
- Immediately remove all soiled and contaminated clothing.
- Wash hands before breaks and at the end of work.
- Avoid contact with the eyes and skin.
- Breathing equipment: Not required.
- · 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 \cdot *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 physic General Information	cal and chemical properties	
Appearance:		
Form:	Liquid	
Color:	Yellow	
Odor:	Methanol	
Odor threshold:	Not determined.	
pH-value:	Not determined.	

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Reviewed on 12/06/2017

Trade	name:	Potassium Iodide
		in MeOH/Water

	(Contd. of page 5
· Change in condition	
Melting point/Melting range:	Undetermined.
Boiling point/Boiling range:	64 °C (147.2 °F)
· Flash point:	60 °C (140 °F)
· Flammability (solid, gaseous):	Not applicable.
· Ignition temperature:	455 °C (851 °F)
· Decomposition temperature:	Not determined.
· Auto igniting:	Product is not selfigniting.
· Danger of explosion:	Not determined.
· Explosion limits:	
Lower:	Not determined.
Upper:	Not determined.
· Vapor pressure at 20 °C (68 °F):	23 hPa (17.3 mm Hg)
· Density at 20 °C (68 °F):	1.46873 g/cm³ (12.25655 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	er): Not determined.
· Viscosity:	
Dynamic:	Not determined.
Kinematic:	Not determined.
· Solvent content:	
Organic solvents:	8.1 %
Water:	40.9 %
VOC content:	8.08 %
	118.7 g/l / 0.99 lb/gl
Solids content:	51.1 %
• 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.
- \cdot Conditions to avoid No further relevant information available.
- · Incompatible materials: No further relevant information available.
- · Hazardous decomposition products: No dangerous decomposition products known.

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Trade name: Potassium Iodide in MeOH/Water

(Contd. of page 6)

· Acute toxicity: · LD/LC50 values that are relevant for classification: ATE (Acute Toxicity Estimate) Oral LD50 Inhalative LC50/4 h 1,586 mg/l (rat) CAS: 67-5/ Methadian (mathematication) Oral LD50 1,187-2,769 mg/kg (rat) Oral LD50 1,187-2,769 mg/kg (rat) Dermal LD50 17,100 mg/kg (rabbit) Inhalative LC50/4 h 128.2 mg/l (rat) • Primary irritant effect: • on the skin: Irritant biskin and mucous membranes. • on the eye: Irritating effect. • Sensitization:: No sensitizing effects known. • Additional toxicological information:	
ATE (Acute Toxicity Estimate) Oral LD50 1,728-1,852 mg/kg Inhalative LC50/4 h 1,586 mg/l (rat) CAS: 67-56-1 Metharot (Methyl Alcohol) Oral LD50 1,187-2,769 mg/kg (rat) Dermal LD50 1,7100 mg/kg (rabbit) Inhalative LC50/4 h 128.2 mg/l (rat) • Primary irritant effect: • on the skin: Irritant to skin and mucous membranes. • on the eye: Irritating effect. • Sensitization: No sensitizing effects known.	
Inhalative LC50/4 h 1,586 mg/l (rat) CAS: 67-5-1 Meth-yl Alcohol Oral LD50 1,187-2,769 mg/kg (rat) Dermal LD50 17,100 mg/kg (rabbit) Inhalative LC50/4 h 28.2 mg/l (rat) • Primary irritant effect: • skin and mucous membranes. • on the skin: Irritative effect. • Sensitization: No sensitizing effects known.	
CAS: 67-56-1 Methanol (Methyl Alcohol)OralLD501,187-2,769 mg/kg (rat)DermalLD5017,100 mg/kg (rabbit)InhalativeLC50/4 h128.2 mg/l (rat)• Primary irritant effect:• on the skin: Irritant to skin and mucous membranes.• on the eye:Irritating effect.• Sensitization:No sensitizing effects known.	
OralLD501,187-2,769 mg/kg (rat)DermalLD5017,100 mg/kg (rabbit)InhalativeLC50/4 h128.2 mg/l (rat)• Primary irritant effect: • on the skin: Irritant to skin and mucous membranes. • on the eye: Irritating effect. • Sensitization: No sensitizing effects known.	
DermalLD5017,100 mg/kg (rabbit)InhalativeLC50/4 h128.2 mg/l (rat)• Primary irritant effect: • on the skin: Irritant to skin and mucous membranes. • on the eye: Irritating effect. • Sensitization: No sensitizing effects known.	
Inhalative LC50/4 h 128.2 mg/l (rat) • Primary irritant effect: • on the skin: Irritant to skin and mucous membranes. • on the eye: Irritating effect. • Sensitization: No sensitizing effects known.	
 Primary irritant effect: on the skin: Irritant to skin and mucous membranes. on the eye: Irritating effect. Sensitization: No sensitizing effects known. 	
Primary irritant effect: on the skin: Irritant to skin and mucous membranes. on the eye: Irritating effect. Sensitization: No sensitizing effects known.	
The product shows the following dangers according to internally approved calculation methods for pre Harmful Irritant	paration.
Carcinogenic categories	
IARC (International Agency for Research on Cancer)	
None of the ingredients is listed.	
NTP (National Toxicology Program)	
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.

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Trade name: Potassium Iodide in MeOH/Water

(Contd. of page 7)

13 Disposal considerations

· Waste treatment methods

· Recommendation:

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

- · Uncleaned packagings:
- *Recommendation: Disposal must be made according to official regulations.*
- Recommended cleansing agent: Water, if necessary with cleansing agents.

UN-Number DOT, IMDG, IATA	UN1993	
UN proper shipping name DOT IMDG, IATA	Flammable liquids, n.o.s. (Methanol) FLAMMABLE LIQUID, N.O.S. (METHANOL)	
Transport hazard class(es)		
DOT		
T AMMARE LIPUC		
Class	3 Flammable liquids	
Label	3	
Class	3 Flammable liquids	
Label	3	
Packing group DOT, IMDG, IATA	III	
Environmental hazards: Marine pollutant:	No	
Special precautions for user	Warning: Flammable liquids	
Danger code (Kemler):	336	
EMS Number:	<i>F-E</i> , <u><i>S-E</i></u>	
Stowage Category	A	
Transport in bulk according to Annex MARPOL73/78 and the IBC Code	II of Not applicable.	

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Reviewed on 12/06/2017

Trade name: Potassium Iodide in MeOH/Water

	(Contd. of page 8)
· 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)	1L Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
• UN "Model Regulation":	UN 1993 FLAMMABLE LIQUIDS, N.O.S. (METHANOL), 3, III

15 Regulatory information

 \cdot Safety, health and environmental regulations/legislation specific for the substance or mixture \cdot Sara

· Section 355 (extremely hazardous substances):

None of the ingredients is listed.

 \cdot Section 313 (Specific toxic chemical listings):

CAS: 67-56-1 Methanol (Methyl Alcohol)

• TSCA (Toxic Substances Control Act):

Potassium Iodide

Methanol (Methyl Alcohol)

Water

· Proposition 65

 \cdot 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 (Methyl Alcohol)

· Carcinogenic categories

· EPA (Environmental Protection Agency)

None of the ingredients is listed.

· TLV (Threshold Limit Value established by ACGIH)

None of the ingredients is listed.

· 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). (Contd. on page 10)

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Trade name: Potassium Iodide in MeOH/Water Reviewed on 12/06/2017

(Contd. of page 9) · Hazard pictograms GHS02 GHS07 GHS08 · Signal word Warning · Hazard-determining components of labeling: Potassium Iodide Methanol (Methyl Alcohol) · Hazard statements Flammable liquid and vapor. Harmful if swallowed. Causes skin irritation. Causes serious eye irritation. May cause damage to organs. · Precautionary statements 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. Do not breathe dust/fume/gas/mist/vapors/spray. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Wear protective gloves/protective clothing/eye protection/face protection. If swallowed: Call a poison center/doctor if you feel unwell. If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. 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: Call a poison center/doctor. Specific treatment (see on this label). Rinse mouth. If skin irritation occurs: Get medical advice/attention. If eye irritation persists: Get medical advice/attention. Take off contaminated clothing and wash it before reuse. In case of fire: Use for extinction: CO2, powder or water spray. 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

12-06-2017: review SDS for accuracy. STN

(Contd. on page 11)

US

Reviewed on 12/06/2017

Safety Data Sheet acc. to OSHA HCS

Printing date 12/06/2017

Trade name: Potassium Iodide in MeOH/Water

	(Contd. of page 10)
Creation date for SDS 11-18-2014. STN	
12/06/2017 / -	
· Abbreviations and acronyms:	
ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement con	cerning the International
Carriage of Dangerous Goods by Road)	8
IMDG: International Maritime Code for Dangerous Goods	
DOT: US Department of Transportation	
IATA: International Air Transport Association	
ACGIH: American Conference of Governmental Industrial Hygienists	
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	
Flam. Liq. 3: Flammable liquids – Category 3	
Acute Tox. 4: Acute toxicity – Category 4	
Skin Irrit. 2: Skin corrosion/irritation – Category 2	
Eye Irrit. 2A: Serious eye damage/eye irritation – Category 2A	
STOT SE 2: Specific target organ toxicity (single exposure) – Category 2	
	US -