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1 Identification · Product identifier · Trade name: Acidic Titration Solvent for Distillates - ASTM D3227-16 • Article number: AM009 · 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 GHS02 Flame Flammable Liquids 2 H225 Highly flammable liquid and vapor. GHS07 Eye Irritation 2A H319 Causes serious eye irritation. Sensitization - Skin 1 H317 May cause an allergic skin reaction. Specific Target Organ Toxicity - Single Exposure 3 H336 May cause drowsiness or dizziness. · Label elements • GHS label elements The product is classified and labeled according to the Globally Harmonized System (GHS). · Hazard pictograms GHS02 GHS07 · Signal word Danger · Hazard-determining components of labeling: Isopropanol Acetic Acid, Glacial · Hazard statements Highly flammable liquid and vapor. Causes serious eye irritation. May cause an allergic skin reaction. May cause drowsiness or dizziness. (Contd. on page 2)

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(Contd. of page	1)
· Precautionary statements	
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.	
Avoid breathing dust/fume/gas/mist/vapors/spray	
Wash thoroughly after handling.	
Use only outdoors or in a well-ventilated area.	
Contaminated work clothing must not be allowed out of the workplace.	
Wear protective gloves/protective clothing/eye protection/face protection.	
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.	
	la la
If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to d	0.
Continue rinsing.	
Call a poison center/doctor if you feel unwell.	
Specific treatment (see on this label).	
If skin irritation or rash occurs: Get medical advice/attention.	
If eye irritation persists: Get medical advice/attention.	
Wash contaminated clothing before reuse.	
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.	
· Classification system:	
· NFPA ratings (scale 0 - 4)	
$\frac{1}{3} Health = 2$	
Fire = 3	
2 <i>Reactivity</i> = 0	
· HMIS-ratings (scale 0 - 4)	
HEALTH 2 $Health = 2$	
FIRE 3 $Fire = 3$	
$\frac{1}{\text{REACTIVITY}[0]} Reactivity = 0$	
REACTIVITY 0 Reactivity = 0	
· Other hazards	
· Results of PBT and vPvB assessment	
· PBT : Not applicable.	
· vPvB: Not applicable.	
3 Composition/information on ingredients	
Chamical share stair stime. Minteres	
• Chemical characterization: Mixtures	
· Description: Mixture of the substances listed below with nonhazardous additions.	_
· Dangerous components:	
CAS: 67.63.0 [soprongal]	76

· Dangerous co	mponenis:	
CAS: 67-63-0	Isopropanol	96.658%
CAS: 64-19-7	Acetic Acid, Glacial	0.612%
	(Con	td. on page 3)
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CAS: 7732-18-5 Water 2.528%	1
CAS: 127-09-3 Sodium Acetate Anhydrous 0.202%]

4 First-aid measures

- · Description of first aid measures
- · General information: Immediately remove any clothing soiled by the product.
- After inhalation:
- Supply fresh air and to be sure call for a 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: If symptoms persist consult 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.
- 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

•	<i>utions, protective equipment and emergency procedures</i> e equipment. Keep unprotected persons away.	
· Environmenta		
Dilute with ple		
	enter sewers/ surface or ground water.	
	naterial for containment and cleaning up:	
	uid-binding material (sand, diatomite, acid binders, universal binders, sawdust).	
	ninated material as waste according to section 13.	
Ensure adequa	ő	
· Reference to of		
U	or information on safe handling.	
See Section 8 fe	or information on personal protection equipment.	
	for disposal information.	
· Protective Acti	on Criteria for Chemicals	
· PAC-1:		
CAS: 67-63-0	Isopropanol	400 ppm
CAS: 64-19-7	Acetic Acid, Glacial	5 ppm

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CAS: 127-09-3	Sodium Acetate Anhydrous	(Contd. of page 3) 11 mg/m ³	
· PAC-2:			
CAS: 67-63-0	Isopropanol	2000* ppm	
CAS: 64-19-7	Acetic Acid, Glacial	35 ppm	
CAS: 127-09-3	Sodium Acetate Anhydrous	120 mg/m ³	
· PAC-3:			
CAS: 67-63-0	Isopropanol	12000** ppm	
CAS: 64-19-7	Acetic Acid, Glacial	250 ppm	
CAS: 127-09-3	Sodium Acetate Anhydrous	700 mg/m ³	

7 Handling and storage

· Handling:

- **Precautions for safe handling** Ensure good ventilation/exhaustion at the workplace. Prevent formation of aerosols.
- 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: Store in a cool location.
- · Information about storage in one common storage facility: Not required.
- Further information about storage conditions: Keep receptacle tightly sealed.
- Store in cool, dry conditions in well sealed receptacles.
- Specific end use(s) No further relevant information available.

8 Exposure controls/personal protection

[•] Additional information about design of technical systems: No further data; see section 7.

•	Control	parameters
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	pponents with limit values that require monitoring at the workplace: : 67-63-0 Isopropanol
PEL	Long-term value: 980 mg/m ³ , 400 ppm
REL	Short-term value: 1225 mg/m³, 500 ppm Long-term value: 980 mg/m³, 400 ppm
TLV	Short-term value: 400 ppm Long-term value: 200 ppm BEI, A4
CAS:	: 64-19-7 Acetic Acid, Glacial
PEL	Long-term value: 25 mg/m ³ , 10 ppm
REL	Short-term value: 37 mg/m³, 15 ppm Long-term value: 25 mg/m³, 10 ppm
	(Contd. on pag

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9 Physical and chemical properties

· General Information

• Appearance: Form:

· Information on basic physical and chemical properties

Liquid

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· Ingr	edients with biological limit values:
0	: 67-63-0 Isopropanol
	40 mg/L
	LD50 Intraperitoneal: urine
	Time: end of shift at end of workweek
	LD50: Acetone (background, nonspecific)
Addi	tional information: The lists that were valid during the creation were used as basis.
Expo	osure controls
Pers	onal protective equipment:
	eral protective and hygienic measures:
	p away from foodstuffs, beverages and feed.
	ediately remove all soiled and contaminated clothing.
	h hands before breaks and at the end of work.
	d contact with the eyes.
	d contact with the eyes and skin.
	thing equipment:
	use of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure u
	iratory protective device that is independent of circulating air. e ction of hands:
Due chem Select Mate The varie the g Pene The obse	Protective gloves glove material has to be impermeable and resistant to the product/ the substance/ the preparation. to missing tests no recommendation to the glove material can be given for the product/ the preparation/ to nical mixture. ction of the glove material on consideration of the penetration times, rates of diffusion and the degradation erial of gloves selection of the suitable gloves does not only depend on the material, but also on further marks of quality a es from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance clove material can not be calculated in advance and has therefore to be checked prior to the application. etration time of glove material exact break through time has to be found out by the manufacturer of the protective gloves and has to rved.
	Tightly sealed goggles

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	(Contd. of page
Color:	Clear
• Odor:	IPA
· Odor threshold:	Not determined.
· pH-value:	Not determined.
• Change in condition	
Melting point/Melting range:	$-89.5 ^{\circ}C(-129.1 ^{\circ}F)$
Boiling point/Boiling range:	82 °C (179.6 °F)
· Flash point:	13 °C (55.4 °F)
· Flammability (solid, gaseous):	Highly flammable.
Auto igniting:	425 °C (797 °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 Vol %
Upper:	12 Vol %
· Vapor pressure at 20 °C (68 °F):	43 hPa (32.3 mm Hg)
• Density at 20 °C (68 °F):	0.79172 g/cm ³ (6.6069 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/wat	er): Not determined.
· Viscosity:	
Dynamic:	Not determined.
Kinematic:	Not determined.
· Solvent content:	
Organic solvents:	97.3 %
Water:	2.5 %
VOC content:	97.27 %
	770.1 g/l / 6.43 lb/gal
Solids content:	0.2 %
· 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.

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• *Incompatible materials:* No further relevant information available.

· Hazardous decomposition products: No dangerous decomposition products known.

11 Toxicological information

· Information on toxicological effects

• Acute toxicity:

• Primary irritant effect:

• on the skin: No irritant effect.

• on the eye: Irritating effect.

• Sensitization: Sensitization possible through skin contact.

· Additional toxicological information:

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

· Carcinogenic categories

· IARC (International Agency for Research on Cancer)

CAS: 67-63-0 Isopropanol

· 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.

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

Transport information		
UN-Number DOT, IMDG, IATA	UN1993	
UN proper shipping name DOT	Flammable liquids, n.o.s. (Isopropanol	
IMDG, IATA) FLAMMABLE LIQUID, N.O.S. (Isopropanol)	
Transport hazard class(es)		
DOT		
PLAMMARE LOUD		
Class Label	3 Flammable liquids 3	
IMDG, IATA		
Class Label	3 Flammable liquids 3	
	5	
Packing group DOT, IMDG, IATA	11	
Environmental hazards: Marine pollutant:	No	
Special precautions for user	Warning: Flammable liquids	
Hazard identification number (Kemler co	ode): 33	
EMS Number: Stowage Category	F-E, <u>S-E</u> B	
Transport in bulk according to Annex II MARPOL73/78 and the IBC Code		
Transport/Additional information:		
DOT		
Quantity limitations	On passenger aircraft/rail: 5 L On cargo aircraft only: 60 L	
IMDG Limited quantities (LQ)	1L	

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	(Contd. of page 8)
· Excepted quantities (EQ)	Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
· UN "Model Regulation":	UN 1993 FLAMMABLE LIQUID, N.O.S. (ISOPROPANOL), 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):	
CAS: 67-63-0 Isopropanol	
• TSCA (Toxic Substances Control Act):	
Isopropanol	ACTIVE
Water	ACTIVE
Acetic Acid, Glacial	ACTIVE
Sodium Acetate Anhydrous	ACTIVE
· Hazardous Air Pollutants	
None of the ingredients is listed.	
· 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 incredients is listed	

None of the ingredients is listed.

· Chemicals known to cause developmental toxicity:

None of the ingredients is listed.

· Carcinogenic categories

 \cdot EPA (Environmental Protection Agency)

None of the ingredients is listed.

• TLV (Threshold Limit Value) CAS: 67-63-0 Isopropanol

A4

· 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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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:
- \cdot Date of preparation / last revision

Revision 1.2 07/24/2024: Reviewed SDS for accuracy. MH/STN

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Revision 0.0, 04-09-2021: Creation date for SDS. STN	(1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.
07/24/2024 / -	
· 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)	
PBT: Persistent, Bioaccumulative and Toxic	
vPvB: very Persistent and very Bioaccumulative	
NIOSH: National Institute for Occupational Safety	
OSHA: Occupational Safety & Health	
TLV: Threshold Limit Value	
PEL: Permissible Exposure Limit	
REL: Recommended Exposure Limit	
BEI: Biological Exposure Limit	
Flammable Liquids 2: Flammable liquids – Category 2	
Eye Irritation 2A: Serious eye damage/eye irritation – Category 2A	
Sensitization - Skin 1: Skin sensitisation – Category 1	
Specific Target Organ Toxicity - Single Exposure 3: Specific target organ toxicity (single exposure) – Category 3	
* Data compared to the previous version altered.	
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