Printing date 06/13/2024 Reviewed on 06/13/2024

1 Identification

· Product identifier

· Trade name: Carboxylic Acid Mix 20.0 mg/L in 10% v/v IPA

· Article number: SPX833

· 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.

- · Label elements
- · GHS label elements The product is classified and labeled according to the Globally Harmonized System (GHS).
- · Hazard pictograms



- · Signal word Danger
- · Hazard statements

Highly flammable liquid and vapor.

· 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.

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.

In case of fire: Use CO2, powder or water spray to extinguish.

Store in a well-ventilated place. Keep cool.

Dispose of contents/container in accordance with local/regional/national/international regulations.

(Contd. on page 2)

· IIS

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Trade name: Carboxylic Acid Mix 20.0 mg/L in 10% v/v IPA

(Contd. of page 1)

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



Health = 0 Fire = 3Reactivity = 0

· HMIS-ratings (scale 0 - 4)



- · 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: 67-63-0 Is	CAS: 67-63-0 Isopropanol		
· Table of Nonhaz	Table of Nonhazardous Ingredients		
CAS: 7732-18-5	Water	91.958%	
CAS: 64-19-7	Acetic Acid, Glacial	0.002%	
CAS: 79-09-4	Propionic Acid, Reagent Grade	0.002%	
CAS: 79-31-2	Isobutyric Acid	0.002%	
CAS: 107-92-6	butyric acid	0.002%	
CAS: 109-52-4	valeric acid	0.002%	
CAS: 111-14-8	heptanoic acid	0.002%	
CAS: 503-74-2	isovaleric acid	0.002%	
CAS: 646-07-1	4-Methylpentanoic acid	0.002%	
CAS: 142-62-1	hexanoic acid	0.0002%	

### 4 First-aid measures

- · Description of first aid measures
- General information: Immediately remove any clothing soiled by the product.
- · After inhalation: Supply fresh air; consult doctor in case of complaints.
- · After skin contact: Immediately rinse with water.
- · After eye contact: Rinse opened eye for several minutes under running water.
- · After swallowing: If symptoms persist consult doctor.
- · Information for doctor:
- · Most important symptoms and effects, both acute and delayed No further relevant information available.

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Trade name: Carboxylic Acid Mix 20.0 mg/L in 10% v/v IPA

(Contd. of page 2)

· 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 section 13.

Ensure adequate ventilation.

· Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

· Protective Action Criteria for Chemicals

CAS: 67-63-0	Isopropanol	400 ppm
CAS: 64-19-7	Acetic Acid, Glacial	5 ppm
CAS: 79-09-4	Propionic Acid, Reagent Grade	15 ppm
CAS: 79-31-2	Isobutyric Acid	0.23 ppm
CAS: 107-92-6	butyric acid	1.4 ppm
CAS: 109-52-4	valeric acid	$2.2 \text{ mg/m}^3$
CAS: 111-14-8	heptanoic acid	3.9 ppm
CAS: 142-62-1	hexanoic acid	2.2 mg/m <sup>3</sup>
· PAC-2:		
CAS: 67-63-0	Isopropanol	2000* ppm
CAS: 64-19-7	Acetic Acid, Glacial	35 ppm
CAS: 79-09-4	Propionic Acid, Reagent Grade	86 mg/m3
CAS: 79-31-2	Isobutyric Acid	2.6 ppm
CAS: 107-92-6	butyric acid	66 mg/m3
CAS: 109-52-4	valeric acid	24 mg/m³
CAS: 111-14-8	heptanoic acid	43 ppm
$CAS \cdot 142-62-1$	hexanoic acid	24 mg/m <sup>3</sup>

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Trade name: Carboxylic Acid Mix 20.0 mg/L in 10% v/v IPA

		(Contd. of page 3)
· PAC-3:		
CAS: 67-63-0	Isopropanol	12000** ppm
CAS: 64-19-7	Acetic Acid, Glacial	250 ppm
CAS: 79-09-4	Propionic Acid, Reagent Grade	510 mg/m3
CAS: 79-31-2	Isobutyric Acid	15 ppm
CAS: 107-92-6	butyric acid	400 mg/m3
CAS: 109-52-4	valeric acid	140 mg/m³
CAS: 111-14-8	heptanoic acid	260 ppm
CAS: 142-62-1	hexanoic acid	140 mg/m³

#### 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: 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

Com	roi parameters	
· Com	· Components with limit values that require monitoring at the workplace:	
CAS.	: 67-63-0 Isopropanol	
PEL	Long-term value: 980 mg/m³, 400 ppm	
REL	Short-term value: 1225 mg/m³, 500 ppm	

TLV Short-term value: 400 ppm Long-term value: 200 ppm

BEI, A4

#### · Ingredients with biological limit values:

#### CAS: 67-63-0 Isopropanol

BEI 40 mg/L

LD50 Intraperitoneal: urine

Time: end of shift at end of workweek LD50: Acetone (background, nonspecific)

Long-term value: 980 mg/m³, 400 ppm

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

(Contd. on page 5)

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Trade name: Carboxylic Acid Mix 20.0 mg/L in 10% v/v IPA

(Contd. of page 4)

- · Exposure controls
- · Personal protective equipment:
- · General protective and hygienic measures:

Immediately remove all soiled and contaminated clothing.

Wash hands before breaks and at the end of work.

- · 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

· 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.

Not determined.

· 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: Alcohol
Odor threshold: Not determined.

· pH-value:

· Change in condition

Melting point/Melting range:Undetermined.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.

(Contd. on page 6)

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Trade name: Carboxylic Acid Mix 20.0 mg/L in 10% v/v IPA

	(Contd. of page	
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:	Not determined.	
Upper:	Not determined.	
Vapor pressure at 20 °C (68 °F):	23 hPa (17.3 mm Hg)	
Density at 20 °C (68 °F):	0.97805 g/cm³ (8.16183 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	e <b>r</b> ): Not determined.	
Viscosity:		
Dynamic:	Not determined.	
Kinematic:	Not determined.	
Solvent content:		
Organic solvents:	8.0 %	
Water:	92.0 %	
VOC content:	8.03 %	
	78.5 g/l / 0.66 lb/gal	
Solids content:	0.1 %	
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.
- · 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:
- · Primary irritant effect:
- · on the skin: No irritant effect.
- · on the eye: No irritating effect.
- · Sensitization: No sensitizing effects known.

(Contd. on page 7)

Printing date 06/13/2024 Reviewed on 06/13/2024

Trade name: Carboxylic Acid Mix 20.0 mg/L in 10% v/v IPA

· Additional toxicological information:

(Contd. of page 6)

- · Carcinogenic categories
- · IARC (International Agency for Research on Cancer)

CAS: 67-63-0 Isopropanol

3

· 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	
DOT	Flammable liquids, n.o.s. (Isopropanol
	)
· IMDG, IATA	FLAMMABLE LIQUID, N.O.S. (Isopropanol

(Contd. on page 8)

Printing date 06/13/2024 Reviewed on 06/13/2024

Trade name: Carboxylic Acid Mix 20.0 mg/L in 10% v/v IPA

(Contd. of page 7) · Transport hazard class(es)  $\cdot DOT$ · Class 3 Flammable liquids · Label · IMDG, IATA · Class 3 Flammable liquids · Label · Packing group · DOT, IMDG, IATA II· Environmental hazards: Not applicable. Warning: Flammable liquids · Special precautions for user · Hazard identification number (Kemler code): 33 · EMS Number: F-E,S-DВ · Stowage Category · Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code Not applicable. · Transport/Additional information:  $\cdot DOT$ · Quantity limitations On passenger aircraft/rail: 5 L On cargo aircraft only: 60 L · IMDG · Limited quantities (LQ) 5LCode: E2 · Excepted quantities (EQ) Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml

### 15 Regulatory information

· UN "Model Regulation":

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

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UN 1993 FLAMMABLE LIQUID, N.O.S. (ISOPROPANOL

- · Sara
- · Section 355 (extremely hazardous substances):

None of the ingredients is listed.

(Contd. on page 9)

Printing date 06/13/2024 Reviewed on 06/13/2024

Trade name: Carboxylic Acid Mix 20.0 mg/L in 10% v/v IPA

Isopropanol Acetic Acid, Glacial Aropionic Acid, Reagent Grade Isobutyric Acid butyric acid valeric acid heptanoic acid isovaleric acid Aromethylpentanoic acid Aromethylpentanoic acid Aromethylpentanoic acid Aromethylpentanoic acid Aromethylpentanoic acid		(Contd. of pag
TSCA (Toxic Substances Control Act):  Water Alsopropanol Actic Acid, Glacial Actic Acid, Glacial Actic Acid, Reagent Grade Actic Acid, Reagent Grade Actic Acid, Reagent Grade Actic Acid Actic Actic Acid Actic Act		
Water A Isopropanol A Isopropanol A Acetic Acid, Glacial Acetic Acid, Glacial Acetic Acid, Glacial Acetic Acid, Reagent Grade A Isobutyric Acid Active Act	CAS: 67-63-0 Isopropanol	
Isopropanol Acetic Acid, Glacial Acetic Acid, Glacial Aropionic Acid, Reagent Grade Alsobutyric Acid Autyric acid Autyric acid Auteric	TSCA (Toxic Substances Control Act):	
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Isobutyric Acid  butyric acid  Autoric acid  heptanoic acid  Autoric aci	Acetic Acid, Glacial	ACTIV
butyric acid A valeric acid A heptanoic acid A heptanoic acid A heptanoic acid A hewanoic acid A hexanoic acid A 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 ingredients is listed.  Chemicals known to cause developmental toxicity: None of the ingredients is listed.  Chemicals known to cause developmental toxicity: None of the ingredients is listed.  Crecinogenic categories EPA (Environmental Protection Agency) None of the ingredients is listed.  TLV (Threshold Limit Value)	1	ACTI
valeric acid A heptanoic acid A heptanoic acid A 4-Methylpentanoic acid A hexanoic acid A 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 ingredients is listed.  Chemicals known to cause developmental toxicity:  None of the ingredients is listed.  Chemicals known to cause developmental toxicity:  None of the ingredients is listed.  Carcinogenic categories  EPA (Environmental Protection Agency)  None of the ingredients is listed.  TLV (Threshold Limit Value)	·	ACTI
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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 ingredients is listed. Chemicals known to cause developmental toxicity: None of the ingredients is listed. Carcinogenic categories EPA (Environmental Protection Agency) None of the ingredients is listed. TLV (Threshold Limit Value)	* *	ACTI
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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:  None of the ingredients is listed.  Carcinogenic categories  EPA (Environmental Protection Agency)  None of the ingredients is listed.  TLV (Threshold Limit Value)	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:  None of the ingredients is listed.  Carcinogenic categories  EPA (Environmental Protection Agency)  None of the ingredients is listed.  TLV (Threshold Limit Value)	Chemicals known to cause reproductive toxicity for females:	
None of the ingredients is listed.  Chemicals known to cause developmental toxicity:  None of the ingredients is listed.  Carcinogenic categories  EPA (Environmental Protection Agency)  None of the ingredients is listed.  TLV (Threshold Limit Value)	None of the ingredients is listed.	
Chemicals known to cause developmental toxicity:  None of the ingredients is listed.  Carcinogenic categories  EPA (Environmental Protection Agency)  None of the ingredients is listed.  TLV (Threshold Limit Value)	Chemicals known to cause reproductive toxicity for males:	
None of the ingredients is listed.  • Carcinogenic categories • EPA (Environmental Protection Agency)  None of the ingredients is listed.  • TLV (Threshold Limit Value)	None of the ingredients is listed.	
Carcinogenic categories  EPA (Environmental Protection Agency)  None of the ingredients is listed.  TLV (Threshold Limit Value)	Chemicals known to cause developmental toxicity:	
EPA (Environmental Protection Agency)  None of the ingredients is listed.  TLV (Threshold Limit Value)	None of the ingredients is listed.	
None of the ingredients is listed.  TLV (Threshold Limit Value)	Carcinogenic categories	
TLV (Threshold Limit Value)	· · · · · · · · · · · · · · · · · · ·	
	None of the ingredients is listed.	
CAS: 67-63-0 Isopropanol	TLV (Threshold Limit Value)	
	CAS: 67-63-0 Isopropanol	1
	the ingredients is listed	

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 statements

Highly flammable liquid and vapor.

(Contd. on page 10)

Printing date 06/13/2024 Reviewed on 06/13/2024

Trade name: Carboxylic Acid Mix 20.0 mg/L in 10% v/v IPA

(Contd. of page 9)

#### · 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.

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.

*In case of fire: Use CO2, powder or water spray to extinguish.* 

Store in a well-ventilated place. Keep cool.

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, 06/13/2024: Reviewed SDS for accuracy. MH/STN 06/13/2024 / 1.1

· 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

\* Data compared to the previous version altered.

- US