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### **1** Identification

- · Product identifier
- · Trade name: Isopropyl Alcohol, Reagent ACS Grade
- Article number: PEC001
- · CAS Number:
- 67-63-0
- *EC number:* 200-661-7
- · Index number:
- 603-117-00-0
- · Application of the substance / the mixture Laboratory chemicals
- 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: techservices@ofite.com 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

GHS07

H319 Causes serious eye irritation.

H225 Highly flammable liquid and vapor.

Specific Target Organ Toxicity - Single Exposure 3 H336 May cause drowsiness or dizziness.

· Label elements

Eye Irritation 2A

• *GHS label elements* The substance is classified and labeled according to the Globally Harmonized System (GHS). • *Hazard pictograms* 



• Signal word Danger • Hazard statements Highly flammable liquid and vapor. Causes serious eye irritation.

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### Trade name: Isopropyl Alcohol, Reagent ACS Grade

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May cause drowsiness or dizziness.
· 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.
Avoid breathing dust/fume/gas/mist/vapors/spray
Wash thoroughly after handling.
Use only outdoors or in a well-ventilated area.
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.
If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.
Continue rinsing.
Call a poison center/doctor if you feel unwell.
If eye irritation persists: Get medical advice/attention.
In case of fire: Use water to extinguish.
Store in a well-ventilated place. Keep cool.
Store locked up.
Dispose of contents/container in accordance with local/regional/national/international regulations.
· Classification system:
· NFPA ratings (scale 0 - 4)
Health = 2
$\frac{3}{Fire = 3}$
$\frac{2}{Reactivity} = 0$
Keacuvity = 0
· HMIS-ratings (scale 0 - 4)
HEALTH 2 $Health = 2$
FIRE $3$ Fire = 3
$\begin{array}{c} \text{REACTIVITY} \\ \hline \end{array} Reactivity = 0 \end{array}$
· Other hazards
· Results of PBT and vPvB assessment
• <b>PBT:</b> Not applicable.
· vPvB: Not applicable.
3 Composition/information on ingredients
Chamical share tai ation. Substances
• Chemical characterization: Substances
· CAS No. Description
CAS: 67-63-0 Isopropanol
· Identification number(s)

- Identification number(s)
  EC number: 200-661-7
- Index number: 603-117-00-0

#### **4** First-aid measures

· Description of first aid measures

• After inhalation: Supply fresh air; consult doctor in case of complaints.

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#### Trade name: Isopropyl Alcohol, Reagent ACS Grade

- · After skin contact: Generally the product does not irritate the skin.
- 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

- *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).
- 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
- PAC-1: 400 ppm
- · PAC-2: 2000\* ppm
- PAC-3: 12000\*\* 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: Store in a cool location.
- · Information about storage in one common storage facility: Not required.
- $\cdot$  Further information about storage conditions:
- Keep receptacle tightly sealed. Store in cool, dry conditions in well sealed receptacles.

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Trade name: Isopropyl Alcohol, Reagent ACS Grade

· 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:

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

PEL Long-term value: 980 mg/m<sup>3</sup>, 400 ppm

- REL Short-term value: 1225 mg/m<sup>3</sup>, 500 ppm Long-term value: 980 mg/m<sup>3</sup>, 400 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)

• 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.
- Avoid contact with the eyes and skin.
- · Breathing equipment: Not required.
- · Protection of hands:

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

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.

· 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

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### Trade name: Isopropyl Alcohol, Reagent ACS Grade

· Body protection: Protective work clothing

9 Physical and chemical proper	ties			
<ul> <li>Information on basic physical and chemical properties</li> <li>General Information</li> <li>Appearance:</li> </ul>				
Form:	Fluid			
Color:	Clear			
· Odor:	Alcohol-like			
· Odor threshold:	Not determined.			
· pH-value:	Not determined.			
· Change in condition				
Melting point/Melting range:	-89.5 °C (-129.1 °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:	Not determined.			
• Danger of explosion:	Product is not explosive. However, formation of explosive air/vapor mixtures are possible.			
· Explosion limits:				
Lower:	2 Vol %			
Upper:	12 Vol %			
· Vapor pressure at 20 °C (68 °F):	43 hPa (32.3 mm Hg)			
	0.785 g/cm <sup>3</sup> (6.55083 lbs/gal)			
• Density at 20 °C (68 °F): • Relative density	Not determined.			
· Kelalive densily · Vapor density	Not determined.			
• vapor aensuy • Evaporation rate	Not determined.			
•	1901 uetermineu.			
· Solubility in / Miscibility with				
Water:	Fully miscible.			
· Partition coefficient (n-octanol/wate	<b>pr):</b> Not determined.			
· Viscosity:				
Dynamic at 20 °C (68 °F):	2.43 mPas			
Kinematic:	Not determined.			
· 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.

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#### Trade name: Isopropyl Alcohol, Reagent ACS Grade

- · 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: Irritating effect.
- Sensitization: No sensitizing effects known.
- $\cdot$  Additional toxicological information:
- · Carcinogenic categories
- · IARC (International Agency for Research on Cancer) 3
- · NTP (National Toxicology Program) Substance is not listed.
- · OSHA-Ca (Occupational Safety & Health Administration) Substance is not 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.
- $\cdot$  Additional ecological information:
- · General notes:

Water hazard class 1 (Assessment by list): 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.

4 Transport information		
· UN-Number · DOT, IMDG, IATA	UN1219	
		(Contd. on page

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#### Trade name: Isopropyl Alcohol, Reagent ACS Grade

	(Contd. of page
· UN proper shipping name · DOT, IMDG, IATA	Isopropanol
· Transport hazard class(es)	
·DOT	
RAMMARE LOOP	
· Class	3 Flammable liquids
·Label	3
· IMDG, IATA	
· Class	3 Flammable liquids
· Label	3
· Packing group · DOT, IMDG, IATA	Ш
· Environmental hazards: · Marine pollutant:	No
· Special precautions for user	Warning: Flammable liquids
• Hazard identification number (Kemler code):	
· EMS Number:	В
• Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	Not applicable.
· Transport/Additional information:	
• 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 1219 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): Substance is not listed.

- Section 313 (Specific toxic chemical listings): Substance is listed.
- · TSCA (Toxic Substances Control Act): ACTIVE
- · Hazardous Air Pollutants Substance is not listed.

· Proposition 65

- · Chemicals known to cause cancer: Substance is not listed.
- · Chemicals known to cause reproductive toxicity for females: Substance is not listed.

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Trade name: Isopropyl Alcohol, Reagent ACS Grade (Contd. of page 7) · Chemicals known to cause reproductive toxicity for males: Substance is not listed. · Chemicals known to cause developmental toxicity: Substance is not listed. · Carcinogenic categories · EPA (Environmental Protection Agency) Substance is not listed. • TLV (Threshold Limit Value) A4 · NIOSH-Ca (National Institute for Occupational Safety and Health) Substance is not listed. • GHS label elements The substance is classified and labeled according to the Globally Harmonized System (GHS). · Hazard pictograms GHS02 GHS07 · Signal word Danger · Hazard statements Highly flammable liquid and vapor. Causes serious eye irritation. May cause drowsiness or dizziness. · 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. Avoid breathing dust/fume/gas/mist/vapors/spray Wash thoroughly after handling. Use only outdoors or in a well-ventilated area. 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. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a poison center/doctor if you feel unwell. If eye irritation persists: Get medical advice/attention. In case of fire: Use water to extinguish. Store in a well-ventilated place. Keep cool. Store locked up. Dispose of contents/container in accordance with local/regional/national/international regulations. · Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

# 16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· Department issuing SDS: Environment protection department.

· Contact:

- Date of Preparation / Last Revision:
- Date of preparation / last revision Revision 1.2 07/24/2024: Reviewed SDS for accuracy. MH/STN Creation date for SDS 10-06-2015. STN 07/24/2024 / -

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# Trade name: Isopropyl Alcohol, Reagent ACS Grade

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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	
CAS: Chemical Abstracts Service (division of the American Chemical Society)	
NFPA: National Fire Protection Association (USA)	
HMIS: Hazardous Materials Identification System (USA)	
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	
Specific Target Organ Toxicity - Single Exposure 3: Specific target organ toxicity (single exposure) – Category 3	
* Data compared to the previous version altered.	