Printing date 08/30/2021

Reviewed on 08/30/2021

1 Identification

- · Product identifier
- Trade name: <u>Acetone/H₂O 1:1 v/v</u> <u>Technical Grade Solution</u>
- · Article number: DC937
- 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



Flam. Liq. 2 H225 Highly flammable liquid and vapor.



Eye Irrit. 2A H319 Causes serious eye irritation. STOT SE 3 H336 May cause drowsiness or dizziness.

STOT SE 5 TISSO May cause arowsiness of algune.

· Label elements

• *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: Acetone
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. Ground/bond container and receiving equipment.

(Contd. on page 2)

US

Printing date 08/30/2021

Reviewed on 08/30/2021

Trade name: Acetone/H₂O 1:1 v/v Technical Grade Solution

	(Contd. of page 1)
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/s	hower
IF INHALED: Remove person to fresh air and keep comfortable for breathing.	nower.
If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if p	resent and easy to do
Continue rinsing.	resent and easy to do.
Call a poison center/doctor if you feel unwell.	
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 regional	ulations.
· Classification system:	
· NFPA ratings (scale 0 - 4)	
Health = 2	
$\frac{3}{Fire = 3}$	
$\frac{2}{Reactivity} = 0$	
· HMIS-ratings (scale 0 - 4)	
HEALTH 2 $Health = 2$	
FIRE 3 Fire = 3	
$\frac{1}{\text{REACTIVITY[0]}} Reactivity = 0$	
• 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: 67-64-1 Acetone	44.134%
· Table of Nonhazardous Ingredients	

55.866%

4 First-aid measures

CAS: 7732-18-5 Water

- · 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.

(Contd. on page 3)

US

Printing date 08/30/2021

Trade name: Acetone/H₂O 1:1 v/v Technical Grade Solution

(Contd. of page 2)

Reviewed on 08/30/2021

- · 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.
- \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

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 13 for disposal information. • Protective Action Criteria for Chemicals • PAC-1: CAS: 67-64-1 Acetone 200 ppm • PAC-3: CAS: 67-64-1 Acetone	· Personal precautions, protective equipment and emergency procedures	
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. • Protective Action Criteria for Chemicals • PAC-1: CAS: 67-64-1 Acetone 200 ppm • PAC-2: CAS: 67-64-1 Acetone 3200* ppm	Wear protective equipment. Keep unprotected persons away.	
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· PAC-2: CAS: 67-64-1 Acetone · PAC-3:	· PAC-1:	
CAS: 67-64-1 Acetone 3200* ppm • PAC-3:	CAS: 67-64-1 Acetone	200 ppm
• PAC-3:	· PAC-2:	
	CAS: 67-64-1 Acetone	3200* ppm
CAS: 67-64-1 Acetone 5700* nnm	· PAC-3:	
5700 ppm	CAS: 67-64-1 Acetone	5700* ppm

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.

(Contd. on page 4)

[·]US

Printing date 08/30/2021

Trade name: Acetone/H₂O 1:1 v/v Technical Grade Solution

(Contd. of page 3)

Reviewed on 08/30/2021

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.
- \cdot 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

· Components with limit values that require monitoring at the workplace:

CAS: 67-64-1 Acetone

PEL Long-term value: 2400 mg/m³, 1000 ppm

REL Long-term value: 590 mg/m³, 250 ppm

TLV Short-term value: 500 ppm Long-term value: 250 ppm A4, BEI

· Ingredients with biological limit values:

CAS: 67-64-1 Acetone

BEI 25 mg/L

LD50 Intraperitoneal: urine Time: end of shift LD50: Acetone (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.
- Avoia contact with the eyes and
- Breathing equipment:

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.

• 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

(Contd. on page 5)

Printing date 08/30/2021

Trade name: Acetone/H₂O 1:1 v/v Technical Grade Solution

Reviewed on 08/30/2021

(Contd. of page 4)

· 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

Appearance:LiquidForm:LiquidColor:HazyOdor:AcetoneOdor threshold:Not determined.pH-value:Not determined.Change in conditionUndetermined.Melting point/Melting range:55 °C (131 °F)Flash point:-17 °C (1.4 °F)Flammability (solid, gaseous):Not applicable.Ignition temperature:465 °C (869 °F)Decomposition temperature:Not determined.Auto igniting:Product is not explosive. However, formation of explosive air/va mixtures are possible.Explosion limits:2.6 Vol %Lower:2.6 Vol %Upper:13 Vol %Vapor pressure at 20 °C (68 °F):233 hPa (174.8 mm Hg)Density at 20 °C (68 °F):0.895 g/cm³ (7.46878 lbs/gal)Relative densityNot determined.Vapor densityNot determined.	Information on basic physical and	chemical properties
Form:Liquid HazyColor:HazyOdor:AcetoneOdor threshold:Not determined.pH-value:Not determined.Change in condition Melting point/Melting range:Undetermined.Boiling point/Boiling range:Undetermined.Boiling point/Boiling range:S° C (131 °F)Flash point:-17 °C (1.4 °F)Flammability (solid, gaseous):Not applicable.Ignition temperature:465 °C (869 °F)Decomposition temperature:Not determined.Auto igniting:Product is not selfigniting.Danger of explosion:Product is not explosive. However, formation of explosive air/va mixtures are possible.Explosion limits: Lower: Upper:2.6 Vol % 13 Vol %Vapor pressure at 20 °C (68 °F):2.33 hPa (174.8 mm Hg)Density at 20 °C (68 °F): Not determined.0.895 g/cm³ (7.46878 lbs/gal) Relative density Not determined.	General Information	
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Vapor density Not determined.		
	•	
<i>Evaporation rate</i> Not determined.		
	Evaporation rate	Not determined.
Solubility in / Miscibility with Water: Fully miscible.		

Printing date 08/30/2021

Reviewed on 08/30/2021

Trade name: Acetone/H₂O 1:1 v/v Technical Grade Solution

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Partition coefficient (n-octan	ol/water): Not determined.		
Viscosity:			
Dynamic:	Not determined.		
Kinematic:	Not determined.		
· Solvent content:			
Organic solvents:	44.1 %		
Water:	55.9 %		
VOC content:	0.00~%		
	0.0 g/l / 0.00 lb/gal		
Solids content:	0.0 %		
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: Irritating effect.
- Sensitization: No sensitizing effects known.
- · 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)

None of the ingredients is listed.

· 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.

(Contd. on page 7)

US

Printing date 08/30/2021

Trade name: Acetone/H₂O 1:1 v/v **Technical Grade Solution**

Reviewed on 08/30/2021

(Contd. of page 6)

- · 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. (Acetone)
IMDG, IATA	FLAMMABLE LIQUID, N.O.S. (ACETONE)
· Transport hazard class(es)	
DOT	
• Class • Label	3 Flammable liquids
IMDG, IATA	
Class	3 Flammable liquids
· Label	3
· Packing group	

Printing date 08/30/2021

Reviewed on 08/30/2021

Trade name: Acetone/H₂O 1:1 v/v Technical Grade Solution

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· Environmental hazards:	
• Marine pollutant:	No
· Special precautions for user	Warning: Flammable liquids
• Hazard identification number (Kemler code):	- 33
· EMS Number:	F-E,S-E
· Stowage Category	B
• 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: 5 L
~ ·	On cargo aircraft only: 60 L
·IMDG	
\cdot Limited quantities (LQ)	1L
\cdot Excepted quantities (\widetilde{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. (ACETONE), 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):

None of the ingredients is listed.

· TSCA (Toxic Substances Control Act):

Water Acetone

· 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.

(Contd. on page 9)

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US

Printing date 08/30/2021

Trade name: Acetone/H₂O 1:1 v/v Technical Grade Solution Reviewed on 08/30/2021

(Contd. of page 8)

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· EPA (Environmental Protection Agency)

CAS: 67-64-1 Acetone

· TLV (Threshold Limit Value)

CAS: 67-64-1 Acetone

· 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: Acetone · 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. 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 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.

(Contd. on page 10)

US

Printing date 08/30/2021

Reviewed on 08/30/2021

Trade name: Acetone/H₂O 1:1 v/v Technical Grade Solution

	(Contd. of page 9)
· Contact:	
· Date of preparation / last revision	
Revision 1.0, 08-12-2021: upodated hazard information. STN	
Creation date for SDS 07-27-2018. STN	
08/30/2021 / -	
· 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	
Flam. Liq. 2: Flammable liquids – Category 2	
Eye Irrit. 2A: Serious eye damage/eye irritation – Category 2A	
STOT SE 3: Specific target organ toxicity (single exposure) – Category 3	
	US