Printing date 11/14/2023

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Reviewed on 11/14/2023

Product identifier         Trade name: AO-Original Level 2 Standard in Acetone         Article number: ARU34         Details of the supplier of the safety data sheet         ManufacturerSupplier: Aquas Solutions, Inc. 0013 Highway 225 DEER PARK, TX 77536 S00.256-2586         DEER PARK, TX 77536 S00.256-2586         Information department: Technical Coordinator Sherman Nelson shermann Réaquasolutions.org         Demerse: BOO 424-9300 Canutec: 613-996-6666    Hazard(s) identification          Classification of the substance or mixture         Image: Classification - 2         H225 Highly flammable liquid and vapor.         Image: Classification - 2         Image: Classificatin	Identification	
In AcetomeArticle number: AR1034Details of the supplier of the safety data sheetManufacturer/Supplier: Agua Solutions. Inc. 6913 Highway 225DEER PARK, TX 77536USA 800-256-2586Information department: Technical Coordinator Sherman Nelson shermann@aquasolutions.org Emergency telephone number: Chemrer: 800-242-9300 Canutec: 613-996-6666Information department: Technical Coordinator Sherman Nelson shermann@aquasolutions.org Emergency telephone number: Chemrer: 800-242-9300 Canutec: 613-996-6666Information of the substance or mixture Image: GHS02 FlameFlammable Liquids 2H225 Highly flammable liquid and vapor.Image: Construction 2H361 Suspected of damaging fertility or the unborn child.Image: Construction 2H361 Suspected of damaging fertility or the unborn child.Image: Construction 2H319 Causes serious cyc irritation. Sensitization - Skin 1Specific Target Organ Toxicity - Single Exposure 3H356 May cause an allergic skin reaction. Specific Target Organ Toxicity - Single Exposure 3Label elements GHS02GHS03Label elements Construct and pictogramsLabel elements GHS03Label elements GHS04Signal word Danger Hazard-determining components of labeling: AccetoneHazard determining components of labeling: Accetone	Product identifier	
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Acetone	GHS02 GHS07 GHS08	
	Signal word Danger Hazard-determining components of labeling:	

Printing date 11/14/2023

Reviewed on 11/14/2023

## Trade name: AO-Original Level 2 Standard in Acetone

	(Contd. of page 1)
Hazard statements	
Highly flammable liquid and vapor.	
Causes serious eye irritation.	
May cause an allergic skin reaction.	
Suspected of damaging fertility or the unborn child.	
May cause drowsiness or dizziness.	
Precautionary statements	
Obtain special instructions before use.	
Do not handle until all safety precautions have been read and understood.	
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.	
Fake precautionary measures against static discharge.	
Avoid breathing dust/fume/gas/mist/vapors/spray	
Vash thoroughly after handling.	
Use only outdoors or in a well-ventilated area.	
Contaminated work clothing must not be allowed out of the workplace.	
<i>Vear protective gloves/protective clothing/eye protection/face protection.</i>	
f on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with wa	ter/shower.
F INHALED: Remove person to fresh air and keep comfortable for breathing.	
f in eyes: Rinse cautiously with water for several minutes. Remove contact lenses,	if present and easy to do.
Continue rinsing.	
F exposed or concerned: Get medical advice/attention.	
Call a poison center/doctor if you feel unwell.	
Specific treatment (see on this label).	
f skin irritation or rash occurs: Get medical advice/attention.	
f eye irritation persists: Get medical advice/attention.	
Vash contaminated clothing before reuse.	
n 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:	0
NFPA ratings (scale 0 - 4)	
Health = 2	
$\frac{3}{Fire = 3}$	
$\frac{2}{Reactivity} = 0$	

· HMIS-ratings (scale 0 - 4)

HEALTH 2 Health = 2FIRE 3 Fire = 3**REACTIVITY O** Reactivity = 0

- Other hazards
- Results of PBT and vPvB assessment PBT: Not applicable. vPvB: Not applicable.

(Contd. on page 3)

US

Printing date 11/14/2023

Reviewed on 11/14/2023

#### Trade name: AO-Original Level 2 Standard in Acetone

(Contd. of page 2)

99.0%

0.5%

0.3%

0.2%

## **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

CAS: 26523-78-4 tris(nonylphenyl) phosphite

 $\cdot$  Table of Nonhazardous Ingredients

CAS: 2082-79-3 Irganox®

CAS: 110553-27-0 2-Methyl-4,6-bis[(n-octylthio)methyl]phenol

## 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

- Personal precautions, protective equipment and emergency procedures
   Wear protective equipment. Keep unprotected persons away.
   Environmental precautions:
- Do not allow product to reach sewage system or any water course.

Inform respective authorities in case of seepage into water course or sewage system. 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.

(Contd. on page 4)

<sup>-</sup> US

Printing date 11/14/2023

Reviewed on 11/14/2023

#### Trade name: AO-Original Level 2 Standard in Acetone

	(Contd. of page 3)
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
· PAC-3:	
CAS: 67-64-1 Acetone	5700* ppm

## 7 Handling and storage

#### · Handling:

- **Precautions for safe handling** Ensure good ventilation/exhaustion at the workplace. Open and handle receptacle with care. Prevent formation of aerosols.
- Information about protection against explosions and fires: Keep ignition sources away - Do not smoke. Protect against electrostatic charges. Keep respiratory protective device available.
- · 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.
- 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:

The following constituent is the only constituent of the product which has a PEL, TLV or other recommended exposure limit.

At this time, the remaining constituent has no known exposure limits.

CAS: 67-64-1 Acetone

PEL Long-term value: 2400 mg/m<sup>3</sup>, 1000 ppm

*REL Long-term value: 590 mg/m<sup>3</sup>, 250 ppm* 

TLV Short-term value: 500 ppm

Long-term value: 250 ppm

A4, BEI

(Contd. on page 5)

US

Printing date 11/14/2023

Reviewed on 11/14/2023

Trade name: AO-Original Level 2 Standard in Acetone

· Information on basic physical and chemical properties

Liquid

Colorless

· General Information · Appearance: Form:

Color:

(Contd. of page 4)

(Contd. on page 6)

US

· 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.	
Store protective clothing separately.	
Avoid contact with the eyes. Avoid contact with the eyes and skin.	
· 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	
<ul> <li>Material of gloves</li> <li>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.</li> <li>Penetration time of glove material</li> </ul>	
The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed. • <b>Eye protection:</b>	
Tightly sealed goggles	
· Body protection: Protective work clothing	
9 Physical and chemical properties	

Printing date 11/14/2023

Reviewed on 11/14/2023

#### Trade name: AO-Original Level 2 Standard in Acetone

	(Contd. of page
Odor:	Acetone
Odor threshold:	Not determined.
pH-value:	Not determined.
Change in condition	
Melting point/Melting range:	-94.7 °C (-138.5 °F)
<b>Boiling point/Boiling range:</b>	55.8-56.6 °C (132.4-133.9 °F)
Flash point:	<-18 °C (<-0.4 °F)
Flammability (solid, gaseous):	Highly flammable.
Auto igniting:	465 °C (869 °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:	2.6 Vol %
Upper:	13 Vol %
Vapor pressure at 20 $^{\circ}C$ (68 $^{\circ}F$ ):	233 hPa (174.8 mm Hg)
Vapor pressure at 50 $\bullet C$ (122 $\bullet F$ ):	800 hPa (600 mm Hg)
Density at 20 °C (68 °F):	0.79051 g/cm³ (6.59681 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/water	r): Not determined.
Viscosity:	
<i>Dynamic at 20 •C (68 •F):</i>	32 mPas
Kinematic:	Not determined.
Solvent content:	
Organic solvents:	99.0 %
VOC content:	0.00 %
	0.0 g/l / 0.00 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.

(Contd. on page 7)

US

Printing date 11/14/2023

Reviewed on 11/14/2023

Trade name: AO-Original Level 2 Standard in Acetone

(Contd. of page 6)

· 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.
- $\cdot$  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.
- *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.

(Contd. on page 8)

US

Printing date 11/14/2023

Reviewed on 11/14/2023

(Contd. of page 7)

Trade name: AO-Original Level 2 Standard in Acetone

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

Transport information		
UN-Number DOT, IMDG, IATA	UN1993	
UN proper shipping name DOT IMDG, IATA	Flammable liquids, n.o.s. (Acetone) FLAMMABLE LIQUID, N.O.S. (Acetone)	
Transport hazard class(es)		
DOT		
RUMALE LOOP		
Class	3 Flammable liquids	
Label IMDG, IATA	3	
Class Label	3 Flammable liquids 3	
Packing group DOT, IMDG, IATA	II	
Environmental hazards:	Not applicable.	
Special precautions for user	Warning: Flammable liquids	
Hazard identification number (Kemler code):		
EMS Number: Stowage Category	F-E,S-D 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		
Limited quantities (LQ)	5L	
Excepted quantities $(EQ)$	Code: E2	
	Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml	

Printing date 11/14/2023

#### Reviewed on 11/14/2023

Trade name: AO-Original Level 2 Standard in Acetone

(Contd. of page 8)

· 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

Suru	
· 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):	
Acetone	ACTIVE
tris(nonylphenyl) phosphite	ACTIVE
Irganox®	ACTIVE
2-Methyl-4,6-bis[(n-octylthio)methyl]phenol	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 ingredients is listed.	
· Chemicals known to cause developmental toxicity:	
None of the ingredients is listed.	
· Carcinogenic categories	
· EPA (Environmental Protection Agency)	
CAS: 67-64-1 Acetone	Ι
• 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

(Contd. on page 10)

A4

US

Printing date 11/14/2023

Reviewed on 11/14/2023

#### Trade name: AO-Original Level 2 Standard in Acetone

	(Contd. of page 9)
Hazard-determining components of labeling:	
Acetone	
tris(nonylphenyl) phosphite	
Hazard statements	
Highly flammable liquid and vapor.	
Causes serious eye irritation.	
May cause an allergic skin reaction.	
Suspected of damaging fertility or the unborn child.	
May cause drowsiness or dizziness.	
Precautionary statements	
Obtain special instructions before use.	
Do not handle until all safety precautions have been read and understood.	
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/s	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 p	resent and easy to do.
Continue rinsing.	·
IF exposed or concerned: Get medical advice/attention.	
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 reg	ulations.
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 Creation date for SDS 11-14-2023. CMC/STN 11/14/2023
- Abbreviations and acronyms: IMDG: International Maritime Code for Dangerous Goods DOT: US Department of Transportation IATA: International Air Transport Association

(Contd. on page 11)

<sup>-</sup> US

Printing date 11/14/2023

Reviewed on 11/14/2023

#### Trade name: AO-Original Level 2 Standard in Acetone

(Contd. of page 10) 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 Toxic to Reproduction 2: Reproductive toxicity – Category 2 Specific Target Organ Toxicity - Single Exposure 3: Specific target organ toxicity (single exposure) - Category 3  $\cdot$  \* Data compared to the previous version altered.