Printing date 08/30/2023 Reviewed on 08/30/2023

1 Identification

· Product identifier

· Trade name: <u>0% w-w 1-Octene in Solvent</u> (In Isopar E)

· Article number: DOW037

• CAS Number: 64741-66-8 • EC number: 265-068-8

203-008-8 • Index number: 649-276-00-X

· 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.



GHS08 Health hazard

Aspiration Hazard 1

H304 May be fatal if swallowed and enters airways.



GHS07

Skin Irritation 2

H315 Causes skin irritation.

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

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







GHS02

GHS07

GHS08

(Contd. on page 2)

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Trade name: 0% w-w 1-Octene in Solvent (In Isopar E)

(Contd. of page 1)

- · Signal word Danger
- · Hazard-determining components of labeling:

Isopar E

· Hazard statements

Highly flammable liquid and vapor.

Causes skin irritation.

May cause drowsiness or dizziness.

May be fatal if swallowed and enters airways.

· 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.

Avoid release to the environment.

Wear protective gloves/protective clothing/eye protection/face protection.

If swallowed: Immediately call a poison center/doctor.

Specific treatment (see on this label).

Do NOT induce vomiting.

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.

Call a poison center/doctor if you feel unwell.

Take off contaminated clothing and wash it before reuse.

If skin irritation occurs: Get medical advice/attention.

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

Collect spillage.

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 = 1

Fire = 3

Reactivity = 0

· HMIS-ratings (scale 0 - 4)



Health = 1

Fire = 3

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

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Trade name: 0% w-w 1-Octene in Solvent (In Isopar E)

(Contd. of page 2)

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## 3 Composition/information on ingredients

· Chemical characterization: Substances

· CAS No. Description

CAS: 64741-66-8 Isopar E

*Consisting of:* 540-84-1 2,2,4-Trimethylpentane (Iso-Octane) (0.1-<0.25%)

· Identification number(s) · EC number: 265-068-8

· Index number: 649-276-00-X

## 4 First-aid measures

· Description of first aid measures

- General information: Immediately remove any clothing soiled by the product.
- · After inhalation: 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.
- · 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.

- · For safety reasons unsuitable extinguishing agents: Water with full jet
- · 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.

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.

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(Contd. of page 3)

· Protective Action Criteria for Chemicals

· PAC-1:

Substance is not listed.

· PAC-2:

Substance is not listed.

· PAC-3:

Substance is not listed.

## 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
- · Components with limit values that require monitoring at the workplace: Not required.
- · 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 skin.

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:



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(Contd. of page 4)

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

· Body protection: Protective work clothing

## 9 Physical and chemical properties

· Information on basic physical and chemical propertie	<ul> <li>Information</li> </ul>	on basic phy	sical and c	hemical <sub>l</sub>	properties
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· General Information

· Appearance:

Form: Fluid
Color: Clear
Odor: Sweetish
Odor threshold: Not determined.

· pH-value: Not determined.

· Change in condition

*Melting point/Melting range:* Undetermined.

**Boiling point/Boiling range:** 115-140 °C (239-284 °F)

• Flash point:  $4 \, ^{\circ}C \, (39.2 \, ^{\circ}F)$ 

· Flammability (solid, gaseous): Highly flammable.

• Auto igniting:  $380 \, ^{\circ}C \, (716 \, ^{\circ}F)$ 

· 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: Not determined.
Upper: Not determined.

· Vapor pressure at 20 °C (68 °F): 19.99836 hPa (15 mm Hg)

• Density at 20 °C (68 °F): 0.72 g/cm³ (6.0084 lbs/gal)

• Relative density
• Vapor density

Not determined.

Not determined.

· Evaporation rate Not determined.

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Trade name: 0% w-w 1-Octene in Solvent (In Isopar E)

		(Contd. of page 5
· Solubility in / Miscibility with Water:	Not miscible or difficult to mix.	
· Partition coefficient (n-octanol/w	ater): >4	
· Viscosity:		
Dynamic at 20 °C (68 °F):	0.7 mPas	
Kinematic:	Not determined.	
Organic solvents:	100.0 %	
VOC content:	100.00 %	
	720.0 g/l / 6.01 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:
- · LD/LC50 values that are relevant for classification:

CAS: 64741-66-8 Isopar E

Teratogenicity 29 (daphnia) (Test Guideline 403)

- Primary irritant effect:
- · on the skin: Irritant to skin and mucous membranes.
- · on the eye: No irritating effect.
- · Sensitization: No sensitizing effects known.
- · Additional toxicological information:
- · Carcinogenic categories
- · IARC (International Agency for Research on Cancer)

Substance is not listed.

· NTP (National Toxicology Program)

Substance is not listed.

· OSHA-Ca (Occupational Safety & Health Administration)

Substance is not listed.

Printing date 08/30/2023 Reviewed on 08/30/2023

Trade name: 0% w-w 1-Octene in Solvent (In Isopar E)

(Contd. of page 6)

## 12 Ecological information

- · Toxicity
- · Aquatic toxicity:

CAS: 64741-66-8 Isopar E

EC50 2.4 mg/L (daphnia) (Test Guideline 403)

Toxicity to fish 18.4 mg/l (Fish) (Test Guideline 403)

- · 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.

## 14 Transport information

· UN-Number

· DOT, IMDG, IATA UN1268

· UN proper shipping name

· DOT

Petroleum distillates, n.o.s. (Octanes)

· IMDG, IATA PETROLEUM DISTILLATES, N.O.S. (Octanes)

- · Transport hazard class(es)
- $\cdot DOT$



· Class 3 Flammable liquids

(Contd. on page 8)

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Trade name: 0% w-w 1-Octene in Solvent (In Isopar E)

(Contd. of page 7) · Label 3 · IMDG, IATA 3 Flammable liquids · Class · Label · Packing group · DOT, IMDG, IATA · Environmental hazards: Not applicable. · Special precautions for user Warning: Flammable liquids · Hazard identification number (Kemler code): 33 · EMS Number: F-E,S-E· Stowage Category В · Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code Not applicable. · Transport/Additional information: · Quantity limitations On passenger aircraft/rail: 5 L On cargo aircraft only: 60 L · IMDG 1L· Limited quantities (LQ) · 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 1268 PETROLEUM DISTILLATES, N.O.S. (OCTANES), 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 not listed.

- · TSCA (Toxic Substances Control Act):
- · Hazardous Air Pollutants

Substance is not listed.

- · Proposition 65
- · Chemicals known to cause cancer:

Substance is not listed.

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Trade name: 0% w-w 1-Octene in Solvent (In Isopar E)

(Contd. of page 8)

### · Chemicals known to cause reproductive toxicity for females:

Substance is not listed.

#### · 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)

Substance is not listed.

#### · 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

GHS0

### · Signal word Danger

#### · Hazard-determining components of labeling:

Isopar E

#### · Hazard statements

Highly flammable liquid and vapor.

Causes skin irritation.

May cause drowsiness or dizziness.

May be fatal if swallowed and enters airways.

#### · 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.

Avoid release to the environment.

Wear protective gloves/protective clothing/eye protection/face protection.

If swallowed: Immediately call a poison center/doctor.

Specific treatment (see on this label).

Do NOT induce vomiting.

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.

Call a poison center/doctor if you feel unwell.

*Take off contaminated clothing and wash it before reuse.* 

If skin irritation occurs: Get medical advice/attention.

(Contd. on page 10)

Printing date 08/30/2023 Reviewed on 08/30/2023

Trade name: 0% w-w 1-Octene in Solvent (In Isopar E)

(Contd. of page 9)

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

Collect spillage.

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

Revision 0.0, 06-13-2023: Creation date for SDS. STN 08/30/2023

· 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)

VOC: Volatile Organic Compounds (USA, EU)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

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

Flammable Liquids 2: Flammable liquids – Category 2

Skin Irritation 2: Skin corrosion/irritation – Category 2

 $Specific\ Target\ Organ\ Toxicity\ -\ Single\ Exposure\ 3:\ Specific\ target\ organ\ toxicity\ (single\ exposure)\ -\ Category\ 3$ 

Aspiration Hazard 1: Aspiration hazard - Category 1

\* Data compared to the previous version altered.

US