Printing date 07/25/2024

Reviewed on 07/25/2024

1 Identification

- · Product identifier
- Trade name: <u>TX 1005 surrogate Stock Solution</u>
- · Article number: NWDL001
- · 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



Flammable Liquids 2

H225 Highly flammable liquid and vapor.



Eye Irritation 2AH319 Causes serious eye irritation.Specific Target Organ Toxicity - Single Exposure 3H336 May cause drowsiness or dizziness.

· 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.

Use explosion-proof electrical/ventilating/lighting/equipment.

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(Contd. of page 1) 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. · Classification system: · NFPA ratings (scale 0 - 4) *Health* = 2Fire = 3Reactivity = 0· HMIS-ratings (scale 0 - 4) HEALTH ² Health = 2Fire = 3FIRE 3 **REACTIVITY O** 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 | | 98.0% |
| CAS: 111-85-3 1-chlorooctane | | 1.0% |
| • Table of Nonhazardous Ingredi | | |
| CAS: 3386-33-2 1-chlorooctade | ecane | 1.0% |

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.

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• 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. | |
| 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 | |
| <i>PAC-1:</i> | |
| CAS: 67-64-1 Acetone | 200 ppm |
| <i>PAC-2:</i> | |
| 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. Prevent formation of aerosols.
- Information about protection against explosions and fires: Keep ignition sources away - Do not smoke.

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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:

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/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.

· 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.

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- 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 \cdot *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

9 Physical and chemical properties

| · Information on basic physical and c | hemical properties |
|---------------------------------------|---|
| General Information | |
| · Appearance: Form: | Liquid |
| Form: Color: | Liquid Colorless |
| · Odor: | Acetone |
| · Oaor: · Odor threshold: | Acetone Not determined. |
| Oaor threshola: | Not determined. |
| pH-value: | Not determined. |
| · Change in condition | |
| Melting point/Melting range: | -94.7 °C (-138.5 °F) |
| Boiling point/Boiling range: | 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/vapor mixtures are possible. |
| • Explosion limits: | |
| Lower: | 2.6 Vol % |
| Upper: | 13 Vol % |
| · Vapor pressure at 20 °C (68 °F): | 233 hPa (174.8 mm Hg) |
| Vapor pressure at 50 °C (122 °F): | 800 hPa (600 mm Hg) |
| Density at 20 °C (68 °F): | 0.7914 g/cm ³ (6.60423 lbs/gal) |
| · Relative density | Not determined. |
| · Vapor density | Not determined. |
| · Evaporation rate | Not determined. |

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|--|--|-----------------|
| • Solubility in / Miscibility with Water: | Fully miscible. | |
| · Partition coefficient (n-octanol/w | | |
| | | |
| • Viscosity: Dynamic at 20 °C (68 °F): | 32 mPas | |
| Kinematic: | Not determined. | |
| · Solvent content: | | |
| Organic solvents: | 98.0 % | |
| VOC content: | 0.00 % | |
| | 0.0 g/l / 0.00 lb/gal | |
| Solids content: | 1.0 % | |
| • 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.

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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 · IMDG, IATA | Flammable liquids, n.o.s. (Acetone) FLAMMABLE LIQUID, N.O.S. (Acetone) | |
| · Transport hazard class(es) | | |
| · DOT | | |
| RAMARE LOOD | | |
| · Class | 3 Flammable liquids | |
| · Label | 3 | |
| · IMDG, IATA | | |
| | | |
| · Class | 3 Flammable liquids | |

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| | (Contd. of) |
|---|---|
| Label | 3 |
| Packing group | |
| DOT, IMDG, IATA | П |
| Environmental hazards: | Not applicable. |
| Special precautions for user | Warning: Flammable liquids |
| Hazard identification number (Kemler code). | : 33 |
| EMS Number: | F-E,S-D |
| Stowage Category | В |
| 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 (\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): | |
| Acetone | ACTIVE |
| 1-chlorooctane | ACTIVE |
| 1-chlorooctadecane | 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. | |
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A4

• Chemicals known to cause developmental toxicity:

None of the ingredients is listed.

· Carcinogenic categories

· 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.

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| Department issuing SDS: Environment protection department. Contact: Date of Preparation / Last Revision: Date of preparation / last revision Revision 1.2, 07-25-2024: Reviewed SDS for accuracy. STN/GW 07/25/2024 / 1.1 Abbreviations and acronyms: IMDG: International Maritime Code for Dangerous Goods DOT: US Department of Transportation IATA: International Maritime Code for Dangerous Goods DOT: US Department of Transportation IATA: International Maritime Code for Commercial Chemical Substances ELINCS: European Inventory of Existing Commercial Chemical Substances ELINCS: European Inventory of Existing Commercial 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 OSH4: Occupational Safety & Health TLV: Threshold Limit Value PEL: Permissible Exposure Limit REL: Recommended Exposure Limit Flammable Liquids 2: Flammable liquids – Category 2 Eye Irritation 24: Serious eye damage/eye irritation 5: Specific target organ toxicity (single exposure) – Category 3 | | our present knowledge. However, this shall not constitute a guarantee for a solution of the stablish a legally valid contractual relationship. | any |
|--|---------------------------------------|--|-----|
| Date of Preparation / Last Revision: Date of preparation / last revision Revision 1.2, 07-25-2024: Reviewed SDS for accuracy. STN/GW 07/25/2024 / 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 and very Bioaccumulative NIOSH: National Institute for Occupational Safety OSHA: Occupational Safety & Health TLY: Threshold Limit Value PEL: Permissible Exposure Limit BEL: Recommended Exposure Limit BEL: Biological Exposure Limit EL: Biological Exposure Limit Flammable Liquids 2: Flammable liquids – Category 2 Eye Irritation 24: Serious eye damage/eye irritation – Category 2A | • Department issuing SDS: Env | ronment protection department. | |
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