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Reviewed on 05/23/2024

1 Identification · Product identifier · Trade name: Water Saturated Toluene · Article number: ND360 · 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 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 Toxic to Reproduction 2 H361 Suspected of damaging fertility or the unborn child. Specific Target Organ Toxicity - Repeated Exposure 2 H373 May cause damage to organs through prolonged or repeated exposure. H304 May be fatal if swallowed and enters airways. Aspiration Hazard 1 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 product is classified and labeled according to the Globally Harmonized System (GHS). · Hazard pictograms GHS02 GHS07 GHS08 (Contd. on page 2) US

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· Signal word Danger	(Contd. of page 1)
Hazard-determining components of labeling:	
Toluene	
· Hazard statements	
Highly flammable liquid and vapor.	
Causes skin irritation.	
Suspected of damaging fertility or the unborn child.	
May cause drowsiness or dizziness.	
May cause damage to organs through prolonged or repeated exposure.	
May be fatal if swallowed and enters airways.	
· 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.	
Do not breathe 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 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/showe	<i>r</i> .
IF INHALED: Remove person to fresh air and keep comfortable for breathing.	
IF exposed or concerned: Get medical advice/attention.	
Call a poison center/doctor if you feel unwell.	
Get medical advice/attention 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.	
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 regulatio	ns.
Classification system:	
· NFPA ratings (scale 0 - 4)	
Health = 1	
$\frac{3}{Fire = 3}$	
$\frac{1}{1} \frac{0}{1} Reactivity = 0$	
• HMIS-ratings (scale 0 - 4)	
HEALTH 1 $Health = 1$	
FIRE 3 $Fire = 3$	
REACTIVITY \bigcirc <i>Reactivity</i> = 0	
· Other hazards	

• Other hazards

• Results of PBT and vPvB assessment • PBT: Not applicable.

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· vPvB: Not applicable.

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99.654%

0.346%

3 Composition/information on ingredients

· Chemical characterization: Mixtures

• Description: Mixture of the substances listed below with nonhazardous additions.

· Dangerous components:

CAS: 108-88-3 Toluene

· Table of Nonhazardous Ingredients

CAS: 7732-18-5 Water

4 First-aid measures

· Description of first aid measures

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

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

- · 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
- During heating or in case of fire poisonous gases are produced.
- · Advice for firefighters
- · Protective equipment: Mouth respiratory protective device.

6 Accidental release measures

- Personal precautions, protective equipment and emergency procedures Mount respiratory protective device.
 Wear protective equipment. Keep unprotected persons away.
 Environmental precautions: 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.

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See Section 8 fo See Section 13 j	her sections or information on safe handling. or information on personal protection equipment. for disposal information. on Criteria for Chemicals	(Contd. of page 3)		
· PAC-1:				
CAS: 108-88-3	Toluene	67 ppm		
· PAC-2:				
CAS: 108-88-3	Toluene	560 ppm		
· PAC-3:				
CAS: 108-88-3	Toluene	3700* 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.
- 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:

CAS: 108-88-3 Toluene

- PEL Long-term value: 200 ppm Ceiling limit value: 300; 500* ppm *10-min peak per 8-hr shift
- REL Short-term value: 560 mg/m³, 150 ppm Long-term value: 375 mg/m³, 100 ppm
- TLV Long-term value: 20 ppm BEI, OTO, A4

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CAS	S: 108-88-3 Toluene
	0.02 mg/L
DLI	LD50 Intraperitoneal: blood
	Time: prior to last shift of workweek
	LD50: Toluene
	LD30: Toluene
	0.03 mg/L
	LD50 Intraperitoneal: urine
	Time: end of shift
	LD50: Toluene
	0.3 mg/g creatinine
	LD50 Intraperitoneal: urine
	Time: end of shift
	LD50: o-Cresol with hydrolysis (background)
· Ada	litional information: The lists that were valid during the creation were used as basis.
· Exn	posure controls
	sonal protective equipment:
	neral protective and hygienic measures:
	p away from foodstuffs, beverages and feed.
	nediately remove all soiled and contaminated clothing.
	sh hands before breaks and at the end of work.
	re protective clothing separately.
	id contact with the skin.
	id contact with the eyes and skin.
	athing equipment:
	ase of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure i
	piratory protective device that is independent of circulating air.
· Pro	tection of hands:
	μ μ
	Protective gloves
71	
	glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
	e to missing tests no recommendation to the glove material can be given for the product/ the preparation/ i
	mical mixture.
	ection of the glove material on consideration of the penetration times, rates of diffusion and the degradation
	terial of gloves
	selection of the suitable gloves does not only depend on the material, but also on further marks of quality a
vari	ies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance
the	glove material can not be calculated in advance and has therefore to be checked prior to the application.
· Pen	etration time of glove material
The	exact break through time has to be found out by the manufacturer of the protective gloves and has to
	erved.
· Eve	protection:
	Tightly sealed goggles
	I ignity sected goggles

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Trade name: Water Saturated Toluene

· Body protection: Protective work clothing

· Information on basic physical and ch	emical properties
· General Information	
· Appearance:	
Form:	Liquid
Color:	Colorless
· Odor: · Odor threshold:	Toluene Not determined.
· pH-value:	Not determined.
· Change in condition	$05 ^{\circ}C (120 ^{\circ}E)$
Melting point/Melting range: Boiling point/Boiling range:	-95 °C (-139 °F) 110 °C (230 °F)
· Flash point:	4 °C (39.2 °F)
· Flammability (solid, gaseous):	Highly flammable.
· Auto igniting:	535 °C (995 °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:	1.2 Vol %
Upper:	7 Vol %
· Vapor pressure at 20 °C (68 °F):	29 hPa (21.8 mm Hg)
· Vapor pressure at 50 °C (122 °F):	124 hPa (93 mm Hg)
· Density at 20 °C (68 °F):	0.86646 g/cm ³ (7.23061 lbs/gal)
· Relative density	Not determined.
· Vapor density	Not determined.
· Evaporation rate	Not determined.
· Solubility in / Miscibility with	
Water at 15 °C (59 °F):	0.5 g/l
· Partition coefficient (n-octanol/water): Not determined.
· Viscosity:	
Dynamic:	Not determined.
Kinematic:	Not determined.
· Solvent content:	00.7.0
Organic solvents:	99.7 % 0.2 %
Water: VOC content:	0.3 % 99.65 %
voc coment:	99.05 % 863.5 g/l / 7.21 lb/gal
Solids content:	0.0 %

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· 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: Irritant to skin and mucous membranes.
- on the eye: No 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)

CAS: 108-88-3 Toluene

· 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 2 (Self-assessment): hazardous for water Do not allow product to reach ground water, water course or sewage system. Danger to drinking water if even small quantities leak into the ground.
- Results of PBT and vPvB assessment
- *PBT:* Not applicable.
- · **vPvB:** Not applicable.

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• 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.*

UN-Number DOT, IMDG, IATA	UN1294
UN proper shipping name DOT IMDG, IATA	Toluene solution TOLUENE solution
Transport hazard class(es)	
DOT	
RAMMARIE LOUD	
Class Label	3 Flammable liquids 3
IMDG, IATA	
Class Label	3 Flammable liquids 3
Packing group	5
DOT, IMDG, IATA	II
Environmental hazards: Marine pollutant:	No
Special precautions for user	Warning: Flammable liquids
Hazard identification number (Kemler code) EMS Number:	: 33 F-E,S-D
Stowage Category	B
Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	Not applicable.

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(Contd. of page 8) · Transport/Additional information:

• Quantity limitations	On passenger aircraft/rail: 5 L On cargo aircraft only: 60 L
· 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 1294 TOLUENE SOLUTION, 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): CAS: 108-88-3 Toluene · TSCA (Toxic Substances Control Act): Toluene ACTIVE Water ACTIVE · Hazardous Air Pollutants CAS: 108-88-3 Toluene

· 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:

CAS: 108-88-3 Toluene

· Carcinogenic categories

· EPA (Environmental Protection Agency)

CAS: 108-88-3 Toluene

· TLV (Threshold Limit Value)

CAS: 108-88-3 Toluene

· 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). (Contd. on page 10)

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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:

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Date of Preparation / Last Revision:	
· Date of preparation / last revision	
Revision 1.2, 05/23/2024: Reviewed SDS for accuracy. MH/STN	
05/23/2024	
· 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	
Flammable Liquids 2: Flammable liquids – Category 2	
Skin Irritation 2: Skin corrosion/irritation – Category 2	
Toxic to Reproduction 2: Reproductive toxicity – Category 2	
Specific Target Organ Toxicity - Single Exposure 3: Specific target organ toxicity (single exposure) – Category 3	
Specific Target Organ Toxicity - Repeated Exposure 2: Specific target organ toxicity (repeated exposure) - Category 2	
Aspiration Hazard 1: Aspiration hazard – Category 1	
• * Data compared to the previous version altered.	
	US