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DNS

# **1** Identification

- · Product identifier
- Trade name: TAN Solvent Special
- Article number: MID258
- Details of the supplier of the safety data sheet

· Manufacturer/Supplier: Aqua Solutions, Inc. 6913 Highway 225 DEER PARK, TX 77536 USA800-256-2586

- · Information department: Technical Coordinator Sherman Nelson shermann@aquasolutions.org • Emergency telephone number:
- Chemtrec: 800-424-9300 Canutec: 613-996-6666

# d(s) idontifi

Hazard(s) identification	
Classification of the substance or mixture	
GHS02 Flame	
Flammable Liquids 2	H225 Highly flammable liquid and vapor.
GHS06 Skull and crossbones	
Acute Toxicity - Dermal 3	H311 Toxic in contact with skin.
Acute Toxicity - Inhalation 3	H331 Toxic if inhaled.
GHS08 Health hazard	
Toxic to Reproduction 2	H361 Suspected of damaging fertility or the unborn child.
Specific Target Organ Toxicity - Single Exposure 1	H370 Causes damage to the central nervous system and the visual organs.
Specific Target Organ Toxicity - Repeated Exposure 2	H373 May cause damage to organs through prolonged or repeated exposure.
Aspiration Hazard 1	H304 May be fatal if swallowed and enters airways.
$\land$	
GHS07	
Acute Toxicity - Oral 4	H302 Harmful if swallowed.
Skin Irritation 2	H315 Causes skin irritation.
Eye Irritation 2A	H319 Causes serious eye irritation.
Specific Target Organ Toxicity - Single Exposure 3	H336 May cause drowsiness or dizziness.
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· Label elements • GHS label elements The product is classified and labeled according to the Globally Harmonized System (GHS). · Hazard pictograms GHS02 GHS06 GHS07 GHS08 · Signal word Danger · Hazard-determining components of labeling: Methanol Toluene Acetone · Hazard statements Highly flammable liquid and vapor. Harmful if swallowed. Toxic in contact with skin or if inhaled. Causes skin irritation. Causes serious eye irritation. Suspected of damaging fertility or the unborn child. Causes damage to the central nervous system and the visual organs. 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. Do not eat, drink or smoke when using this product. 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/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. IF exposed or concerned: Get medical advice/attention. Get medical advice/attention if you feel unwell. Rinse mouth. Take off immediately all contaminated clothing and wash it before reuse. If skin irritation occurs: Get medical advice/attention. 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.

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Store in a well-ventilated place. Keep cool. Store locked up. Dispose of contents/container in accordance with local/regional/national/international regulation • <b>Classification system:</b> • <b>NFPA ratings (scale 0 - 4)</b>	(Contd. of page 2) S.
4 = 2 $Fire = 3$ $Reactivity = 0$	
· HMIS-ratings (scale 0 - 4)	
HEALTH*2Health = *2FIRE3Fire = 3REACTIVITY $\bigcirc$ 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: 108-88-3	Toluene	35.405%
CAS: 67-56-1	Methanol	32.328%
CAS: 67-64-1	Acetone	32.267%

## 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.

Remove breathing apparatus only after contaminated clothing have been completely removed. In case of irregular breathing or respiratory arrest provide artificial respiration.

#### • After inhalation:

Supply fresh air or oxygen; call for 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: Immediately call a 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.

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## **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
- 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:
- 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

· PAC-1:		
CAS: 108-88-3	Toluene	67 ppm
CAS: 67-56-1	Methanol	530 ppm
CAS: 67-64-1	Acetone	200 ppm
· PAC-2:		
CAS: 108-88-3	Toluene	560 ppm
CAS: 67-56-1	Methanol	2,100 ppm
CAS: 67-64-1	Acetone	3200* ppm
· PAC-3:		
CAS: 108-88-3	Toluene	3700* ppm
CAS: 67-56-1	Methanol	7200* ppm
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.*

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*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: 200 ppm Ceiling limit value: 300; 500\* ppm \*10-min peak per 8-hr shift
- REL Short-term value: 560 mg/m<sup>3</sup>, 150 ppm Long-term value: 375 mg/m<sup>3</sup>, 100 ppm
- *TLV Long-term value: 20 ppm BEI, OTO, A4*

## CAS: 67-56-1 Methanol

PEL Long-term value: 260 mg/m<sup>3</sup>, 200 ppm REL Short-term value: 325 mg/m<sup>3</sup>, 250 ppm

- Long-term value: 260 mg/m<sup>3</sup>, 200 ppm Skin TLV Short-term value: 250 ppm
- Long-term value: 200 ppm Skin; BEIc

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

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Ingi	redients with biological limit values:
CAS	S: 108-88-3 Toluene
BEI	0.02 mg/L LD50 Intraperitoneal: blood Time: prior to last shift of workweek LD50: 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)
CAS	S: 67-56-1 Methanol
BEI	15 mg/L LD50 Intraperitoneal: urine Time: end of shift LD50: Methanol (background, nonspecific)
CAS	S: 67-64-1 Acetone
BEI	25 mg/L LD50 Intraperitoneal: urine Time: end of shift LD50: Acetone (nonspecific)
Add	litional information: The lists that were valid during the creation were used as basis.
Pers Gen Kee Imm Was Stor Avo Bre In c	posure controls sonal protective equipment: meral protective and hygienic measures: p away from foodstuffs, beverages and feed. mediately remove all soiled and contaminated clothing. sh hands before breaks and at the end of work. re protective clothing separately. 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 us piratory protective device that is independent of circulating air. tection 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  $\cdot$  **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.

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# Safety Data Sheet acc. to OSHA HCS

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• **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

Information on basic physical and c	hemical properties
General Information	
Appearance:	
Form:	Liquid
Color:	Clear
Odor: Odor threshold:	Organic Not determined.
pH-value:	Not determined.
Change in condition	
Melting point/Melting range:	Undetermined.
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:	455 °C (851 °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:	44 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):	0.81769 g/cm <sup>3</sup> (6.82362 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/wate	
	·/····
Viscosity: Dynamic:	Not determined.

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Kinematic:	Not determined.	
· Solvent content:		
Organic solvents:	100.0 %	
VOC content:	67.73 %	
	553.8 g/l / 4.62 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:

ATE (Acute Toxicity Estimate)			
Oral	LD50	309 mg/kg	
	LD50	928 mg/kg	
Inhalative	LC50/4h	9.28 mg/l	

#### Primary irritant effect:

• on the skin: Irritant to skin and mucous membranes.

• 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: Toxic

Harmful

Irritant

#### · Carcinogenic categories

· IARC (International Agency	for Research on Cancer)
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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.

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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 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.
- 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, Toluene, Methanol)
IMDG, IATA	FLAMMABLE LIQUID, N.O.S. (Acetone, Toluene, Methanol)
Transport hazard class(es)	
DOT	
RLAMMABLE LIQUD	
3	
Class	3 Flammable liquids
Label	3

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IMDG, IATA	
3	
Class	3 Flammable liquids
Label	3
Packing group	
DOT, IMDG, IATA	11
Environmental hazards:	Not applicable.
Special precautions for user	Warning: Flammable liquids
Hazard identification number (Kemler code).	
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 (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, TOLUENI
6	METHANOL), 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	
CAS: 67-56-1 Methanol	
· TSCA (Toxic Substances Control Act):	
Toluene	ACTIVE
Methanol	ACTIVE
Acetone	ACTIVE
· Hazardous Air Pollutants	
CAS: 108-88-3 Toluene	
·	(Contd. on page 11)

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010 (7.5( )		(Contd. of page 1
	Methanol	
Proposition 65		
	wn to cause cancer:	
None of the ing	redients is listed.	
	wn to cause reproductive toxicity for females:	
None of the ing	edients is listed.	
Chemicals know	vn to cause reproductive toxicity for males:	
None of the ing	redients is listed.	
Chemicals know	vn to cause developmental toxicity:	
CAS: 108-88-3	Toluene	
CAS: 67-56-1	Methanol	
Carcinogenic c	ategories	
-	nental Protection Agency)	
CAS: 108-88-3	0 •/	
	Acetone	
TLV (Threshol		
CAS: 108-88-3	· · · · · · · · · · · · · · · · · · ·	A
	Acetone	A
	tional Institute for Occupational Safety and Health)	
	edients is listed.	
GHS02 GHS	506 GHS07 GHS08	
<b>Signal word</b> Da	nger	
	ning components of labeling:	
Methanol Toluono		
Toluene Acetone		
Hazard stateme	nts	
	le liquid and vapor.	
Harmful if swal		
	with skin or if inhaled.	
Causes skin irri		
Causes serious	naging fertility or the unborn child.	
	to the central nervous system and the visual organs.	
	siness or dizziness.	
	age to organs through prolonged or repeated exposure.	
May be fatal if s	wallowed and enters airways.	
Precautionary		
	nstructions before use.	
	ntil all safety precautions have been read and understood. heat/sparks/open flames/hot surfaces No smoking.	
iscep uwuy ji 01	neurspurks/open junies/noi surjuces no smoking.	(Contd. on page

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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.
Do not eat, drink or smoke when using this product.
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/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.
IF exposed or concerned: Get medical advice/attention.
Get medical advice/attention if you feel unwell.
Rinse mouth.
Take off immediately all contaminated clothing and wash it before reuse.
If skin irritation occurs: Get medical advice/attention.
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. · 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 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) 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

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REL: Recommended Exposure Limit BEI: Biological Exposure Limit Flammable Liquids 2: Flammable liquids – Category 2 Acute Toxicity - Oral 4: Acute toxicity – Category 4 Acute Toxicity - Dermal 3: Acute toxicity – Category 3 Skin Irritation 2: Skin corrosion/irritation – Category 2 Eye Irritation 2A: Serious eye damage/eye irritation – Category 2A Toxic to Reproduction 2: Reproductive toxicity – Category 2 Specific Target Organ Toxicity - Single Exposure 1: Specific target organ toxicity (single exposure) – Category 1 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.