# Safety Data Sheet acc. to OSHA HCS

Printing date 10/04/2017

**1** Identification

Reviewed on 10/04/2017

<ul> <li>Product identifier</li> <li>Trade name: <u>Sulfur Stock Standard</u> <u>100 ppm w/w in Toluene</u></li> <li>Article number: AM341</li> </ul>	
• 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	AQUA SOLUTIONS
• Information department: Technical Coordinator Sherman Nelson sherman@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	
Flam. Liq. 2 H225 Highly flammable liquid and vapor. GHS08 Health hazard	
Repr. 2 H361 Suspected of damaging fertility or the unborn STOT RE 2 H373 May cause damage to organs through prolong Asp. Tox. 1 H304 May be fatal if swallowed and enters airways.	ged or repeated exposure.
GHS07	
Skin Irrit. 2 H315 Causes skin irritation. STOT SE 3 H336 May cause drowsiness or dizziness.	
• Label elements • GHS label elements The product is classified and labeled accordi • Hazard pictograms	ing to the Globally Harmonized System (GHS).
GHS02 GHS07 GHS08	
· Signal word Danger	
• Signal word Danger • Hazard-determining components of labeling: Toluene	

Printing date 10/04/2017

Reviewed on 10/04/2017

# Trade name: Sulfur Stock Standard 100 ppm w/w in Toluene

	(Contd. of page 1)
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.	
If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.	
<i>IF INHALED: Remove person to fresh air and keep comfortable for breathing.</i>	
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.	
Specific treatment (see on this label).	
Do NOT induce vomiting.	
If skin irritation occurs: Get medical advice/attention.	
Take off contaminated clothing and wash it before reuse.	
In case of fire: Use for extinction: CO2, powder or water spray.	
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)	
$\begin{array}{c} Health = 2\\ Fire = 3 \end{array}$	
1 lle = 5	
2 $0$ Reactivity = 0	
HMIS-ratings (scale 0 - 4)	
HEALTH *2 $Health = *2$	
FIRE 3 Fire = 3	
<b>REACTIVITY</b> $0$ <i>Reactivity</i> = 0	
Other hazards	
Results of PBT and vPvB assessment	
<b>PBT:</b> Not applicable.	
<b>DD</b> . Not applicable	

• **vPvB:** Not applicable.

(Contd. on page 3)

US

Printing date 10/04/2017

Reviewed on 10/04/2017

#### Trade name: Sulfur Stock Standard 100 ppm w/w in Toluene

(Contd. of page 2)

99.544%

0.456%

## 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

 $\cdot$  Table of Nonhazardous Ingredients

CAS: 544-40-1 n-Butyl Sulfide 99%

#### 4 First-aid measures

· Description of first aid measures

- General information:
- 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 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 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 item 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.

(Contd. on page 4)

Printing date 10/04/2017

Reviewed on 10/04/2017

Trade name: Sulfur Stock Standard 100 ppm w/w in Toluene

 (Contd. of page 3)

 • Protective Action Criteria for Chemicals

 • PAC-1:

 CAS: 108-88-3
 Toluene

 • PAC-2:

 CAS: 108-88-3
 Toluene

 • PAC-3:

 CAS: 108-88-3
 Toluene

 • PAC-3:

 • CAS: 108-88-3
 Toluene

# 7 Handling and storage

#### · Handling:

· Precautions for safe handling No special precautions are necessary if used correctly.

- *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 item 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: 75 mg/m³, 20 ppm BEI	
		(Contd. on page 5)

Printing date 10/04/2017

V

Reviewed on 10/04/2017

Trade name: Sulfur Stock Standard 100 ppm w/w in Toluene

(Contd. of page 4)

	: 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
l	Time: end of shift
l	LD50: o-Cresol with hydrolysis (background)
۸dd	<i>tional information:</i> The lists that were valid during the creation were used as basis.
	osure controls
	onal protective equipment:
	eral protective and hygienic measures:
	a way from foodstuffs, beverages and feed.
	ediately remove all soiled and contaminated clothing.
	h hands before breaks and at the end of work.
	e protective clothing separately. d contact with the skin.
	d contact with the eyes and skin.
	thing equipment:
	use of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure u
resp	use of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure u Fratory protective device that is independent of circulating air.
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(Contd. on page 6)

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Printing date 10/04/2017

Reviewed on 10/04/2017

Trade name: Sulfur Stock Standard 100 ppm w/w in Toluene

· Body protection: Protective work clothing

Information on basic physical and chemical properties General Information						
				Appearance: Form: Liquid		
				Color:	Clear	
Odor:	Sulfur odor					
Odor threshold:	Not determined.					
pH-value:	Not determined.					
Change in condition						
Melting point/Melting range:	-95 °C (-139 °F)					
<b>Boiling point/Boiling range:</b>	110 °C (230 °F)					
Flash point:	4 °C (39 °F)					
Flammability (solid, gaseous):	Not applicable.					
Ignition temperature:	535 °C (995 °F)					
Decomposition temperature:	Not determined.					
Auto igniting:	Product is not selfigniting.					
Danger of explosion:	Product is not explosive. However, formation of explosive air/vap- mixtures are possible.					
Explosion limits:						
Lower:	1.2 Vol %					
Upper:	7 Vol %					
Vapor pressure at 20 °C (68 °F):	29 hPa (22 mm Hg)					
Density at 20 °C (68 °F):	0.8667 g/cm³ (7.233 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/wat	er): Not determined.					
Viscosity:						
Dynamic:	Not determined.					
Kinematic:	Not determined.					
Solvent content:						
Organic solvents:	99.5 %					
VOC content:	99.5 %					
	862.7 g/l / 7.20 lb/gl					
Other information	No further relevant information available.					

(Contd. on page 7)

Printing date 10/04/2017

Reviewed on 10/04/2017

#### Trade name: Sulfur Stock Standard 100 ppm w/w in Toluene

(Contd. of page 6)

## **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:

Oral

· LD/LC50 values that are relevant for classification:

ATE (Acute Toxicity Estimate)

LD50 5023 mg/kg (rat)

#### CAS: 108-88-3 Toluene

Oral	LD50	5000 mg/kg (rat)
Dermal		12124 mg/kg (rabbit)

Inhalative LC50/4 h 5320 mg/l (mouse)

· 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.

(Contd. on page 8)

3

US

Printing date 10/04/2017

Reviewed on 10/04/2017

#### Trade name: Sulfur Stock Standard 100 ppm w/w in Toluene

(Contd. of page 7)

· 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.

UN-Number		
DOT, IMDG, IATA	UN1993	
UN proper shipping name		
DOT	Flammable liquids, n.o.s. (Toluene)	
IMDG, IATA	FLAMMABLE LIQUID, N.O.S. (TOLUENE)	
Transport hazard class(es)		
DOT		
RAMMARE LODO		
Class	3 Flammable liquids	
Label	3	
IMDG, IATA		_
Class	3 Flammable liquids	
Label	3	
Packing group		
DOT, ĬMDG, IATA	II	
Environmental hazards:		
Marine pollutant:	No	
Special precautions for user	Warning: Flammable liquids	

(Contd. of page 8)

# Safety Data Sheet acc. to OSHA HCS

Printing date 10/04/2017

Reviewed on 10/04/2017

Trade name: Sulfur Stock Standard 100 ppm w/w in Toluene

• EMS Number: • Stowage Category F-E,<u>S-E</u> B

• Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Not applicable.

· UN ''Model Regulation'':

UN 1993 FLAMMABLE LIQUIDS, N.O.S. (TOLUENE), 3, II

# **15 Regulatory information**

 $\cdot$  Safety, health and environmental regulations/legislation specific for the substance or mixture  $\cdot$  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):

All ingredients are 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:

CAS: 108-88-3 Toluene

#### · Carcinogenic categories

· EPA (Environmental Protection Agency)

CAS: 108-88-3 Toluene

· TLV (Threshold Limit Value established by ACGIH)

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). • *Hazard pictograms* 



· Signal word Danger

• Hazard-determining components of labeling: Toluene

(Contd. on page 10)

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A4

*Printing date 10/04/2017* 

Reviewed on 10/04/2017

## Trade name: Sulfur Stock Standard 100 ppm w/w in Toluene

	(Contd. of page 9)
· 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.	
If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/sh	ower.
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.	
Specific treatment (see on this label).	
Do NOT induce vomiting.	
If skin irritation occurs: Get medical advice/attention.	
Take off contaminated clothing and wash it before reuse.	
In case of fire: Use for extinction: CO2, powder or water spray.	
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 regul	lations.
· 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
- Creation date for SDS 03-25-2015. STN 10-04-2017: review SDS for accuracy. STN 10/04/2017 / -
- Abbreviations and acronyms:

   ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
   IMDG: International Maritime Code for Dangerous Goods
   DOT: US Department of Transportation
   IATA: International Air Transport Association
   ACGIH: American Conference of Governmental Industrial Hygienists
   EINECS: European Inventory of Existing Commercial Chemical Substances

(Contd. on page 11)

<sup>-</sup> US

Printing date 10/04/2017

Reviewed on 10/04/2017

# Trade name: Sulfur Stock Standard 100 ppm w/w in Toluene

ELINCS: European List of Notified Chemical Substances	(Contd. of page 10)
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	
BEI: Biological Exposure Limit	
Flam. Liq. 2: Flammable liquids – Category 2	
Skin Irrit. 2: Skin corrosion/irritation – Category 2	
Repr. 2: Reproductive toxicity – Category 2	
STOT SE 3: Specific target organ toxicity (single exposure) – Category 3	
STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2	
Asp. Tox. 1: Aspiration hazard – Category 1	
hsp. tox 1. hspraton nazara Cucgory 1	US