Printing date 06/06/2024 Reviewed on 06/06/2024

#### 1 Identification

· Product identifier

· Trade name: 10.0 mg/kg S-21 in 10:90 Oil/Xylene

· Article number: SH075

· 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 3 H226 Flammable liquid and vapor.



Acute Toxicity - Dermal 4 H312 Harmful in contact with skin.

Acute Toxicity - Inhalation 4 H332 Harmful if inhaled. Skin Irritation 2 H315 Causes skin irritation.

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





GHS02

GHS07

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

*Xylene* (*Xylol*)

· Hazard statements

Flammable liquid and vapor.

Harmful in contact with skin or if inhaled.

Causes skin irritation.

· Precautionary statements

Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

Keep container tightly closed.

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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.

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.

Call a poison center/doctor if you feel unwell.

*Specific treatment (see on this label).* 

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 cool.

Dispose of contents/container in accordance with local/regional/national/international regulations.

- · Classification system:
- · NFPA ratings (scale 0 4)



Health = 1Fire = 3

Reactivity = 0

· HMIS-ratings (scale 0 - 4)



1 Health = 1 Fire = 3

- · 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 comp	oonents:	
CAS: 1330-20-7	Xylene (Xylol)	97.422%
· Table of Nonhaz	ardous Ingredients	
CAS: 8042-47-5	White mineral oil, petroleum	>2.56%
	Proprietary, non-hazardous material	<0.013%
CAS: 7440-02-0		<0.003%
CAS: 7440-43-9	cadmium Metal	<0.003%

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#### 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:

Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist. 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: Mouth respiratory protective device.

#### 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 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

1 Totalite Main	Cruciu for Chemicus	
· PAC-1:		
CAS: 1330-20-7	Xylene (Xylol)	130 ppm
CAS: 7440-43-9	cadmium Metal	$0.10  mg/m^3$
· PAC-2:		
CAS: 1330-20-7	Xylene (Xylol)	920* ppm
CAS: 7440-43-9	cadmium Metal	$0.76  mg/m^3$
		Contd. on page 4)

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	(Contd. of page 3)
· PAC-3:	
CAS: 1330-20-7   Xylene (Xylol)	2500* ppm
CAS: 7440-43-9 cadmium Metal	4.7 mg/m³

## 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: No special requirements.
- · Information about storage in one common storage facility: Not required.
- · Further information about storage conditions: Keep receptacle tightly sealed.
- · 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 lim	it values	that re	equire	monitoring	at the	workplace:

CAS	1330	20_7	Vylono	(Xvlol)
CAD.	1.).)(/*	-21/-/	A viene	(AVIIII)

PEL Long-term value: 435 mg/m³, 100 ppm

REL Short-term value: 655 mg/m³, 150 ppm

Long-term value: 435 mg/m³, 100 ppm

TLV Long-term value: 20 ppm

BEI, A4

#### · Ingredients with biological limit values:

#### CAS: 1330-20-7 Xylene (Xylol)

BEI 1.5 g/g creatinine

LD50 Intraperitoneal: urine

Time: end of shift

LD50: Methylhippuric acids

- · 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.

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#### · 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. 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. 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	chemical properties
· General Information	
· Appearance:	
Form:	Liquid
Color:	Clear
· Odor:	Organic
· Odor threshold:	Not determined.
· pH-value:	Not determined.
· Change in condition	
Melting point/Melting range:	Undetermined.
Boiling point/Boiling range:	36 °C (96.8 °F)
· Flash point:	30 °C (86 °F)
· Flammability (solid, gaseous):	Flammable.
· Auto igniting:	500 °C (932 °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.

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Trade name: 10.0 mg/kg S-21 in 10:90 Oil/Xylene

		(Contd. of page
Explosion limits:		
Lower:	1.1 Vol %	
Upper:	7 Vol %	
· Vapor pressure at 20 °C (68 °F):	6.7-8.2 hPa (5-6.2 mm Hg)	
Density at 20 °C (68 °F):	0.87 g/cm³ (7.26015 lbs/gal)	
Relative density	Not determined.	
· Vapor density	Not determined.	
Evaporation rate	Not determined.	
Solubility in / Miscibility with		
Water at 20 °C (68 °F):	0.2 g/l	
Partition coefficient (n-octanol/wate	e <b>r):</b> Not determined.	
· Viscosity:		
Dynamic at 20 °C (68 °F):	0.61 mPas	
Kinematic:	Not determined.	
Solvent content:		
Organic solvents:	97.4 %	
VOC content:	97.42 %	
	974.2 g/l / 8.13 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)	

 Dermal
 LD50
 1,129 mg/kg

 Inhalative
 LC50/4h
 11.3 mg/l

- · 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: Harmful

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(Contd. of page 6)

Irritant

· Carcinogenic categories	
· IARC (International Agency for Research on Cancer)	
CAS: 1330-20-7   Xylene (Xylol)	3
CAS: 7440-43-9 cadmium Metal	1
· NTP (National Toxicology Program)	
CAS: 7440-43-9 cadmium Metal	K
· OSHA-Ca (Occupational Safety & Health Administration)	

## 12 Ecological information

- · Toxicity
- · Aquatic toxicity: No further relevant information available.
- · Persistence and degradability No further relevant information available.
- · Behavior in environmental systems:

CAS: 7440-43-9 cadmium Metal

- · 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.

UN1993	
Flammable liquids, n.o.s. (Xylene (Xylol))	
FLAMMABLE LIQUID, N.O.S. (Xylene (Xylol))	
	Flammable liquids, n.o.s. (Xylene (Xylol))

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(Contd. of page 7) · Transport hazard class(es)  $\cdot DOT$ · Class 3 Flammable liquids · Label · IMDG, IATA · Class 3 Flammable liquids · Label · Packing group · DOT, IMDG, IATA II· Environmental hazards: Not applicable. Warning: Flammable liquids · Special precautions for user · Hazard identification number (Kemler code): 30 F-E,S-D· EMS Number: · Stowage Category  $\boldsymbol{A}$ · Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code Not applicable. · Transport/Additional information:  $\cdot DOT$ On passenger aircraft/rail: 60 L · Quantity limitations On cargo aircraft only: 220 L · IMDG · Limited quantities (LQ) 5L· Excepted quantities (EQ) Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml · UN "Model Regulation": UN 1993 FLAMMABLE LIQUID, N.O.S. (XYLENE (XYLOL)), 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.

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	(Contd. of pag
Section 313 (Specific toxic chemical listings):	
CAS: 1330-20-7   Xylene (Xylol)	
CAS: 7440-43-9 cadmium Metal	
TSCA (Toxic Substances Control Act):	
Xylene (Xylol)	ACTIV
White mineral oil, petroleum	ACTIV
cadmium Metal	ACTIV
Hazardous Air Pollutants	
CAS: 1330-20-7   Xylene (Xylol)	
Proposition 65	
Chemicals known to cause cancer:	
CAS: 7440-43-9 cadmium Metal	
Chemicals known to cause reproductive toxicity for females:	
None of the ingredients is listed.	
Chemicals known to cause reproductive toxicity for males:	
CAS: 7440-43-9 cadmium Metal	
Chemicals known to cause developmental toxicity:	
CAS: 7440-43-9 cadmium Metal	
Carcinogenic categories	
EPA (Environmental Protection Agency)	
CAS: 1330-20-7   Xylene (Xylol)	
CAS: 7440-43-9 cadmium Metal	
TLV (Threshold Limit Value)	<u> </u>
CAS: 1330-20-7   Xylene (Xylol)	
CAS: 7440-43-9 cadmium Metal	
NIOSH-Ca (National Institute for Occupational Safety and Health)	

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





CAS: 7440-43-9 cadmium Metal

GHS02

GHS07

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

*Xylene* (*Xylol*)

· Hazard statements

Flammable liquid and vapor.

Harmful in contact with skin or if inhaled.

Causes skin irritation.

· Precautionary statements

Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

Keep container tightly closed.

Ground/bond container and receiving equipment.

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Trade name: 10.0 mg/kg S-21 in 10:90 Oil/Xylene

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*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.

Call a poison center/doctor if you feel unwell.

Specific treatment (see on this label).

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 cool.

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, 06/05/2024: Reviewed SDS for accuracy. MH/STN

Revision 0.0, 05-29-2024: Creation date for SDS. STN

06/06/2024

· 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)

 ${\it HMIS: Hazardous\ Materials\ Identification\ System\ (USA)}$ 

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

Flammable Liquids 3: Flammable liquids - Category 3

Acute Toxicity - Dermal 4: Acute toxicity - Category 4

Skin Irritation 2: Skin corrosion/irritation - Category 2

\* \* Data compared to the previous version altered.

US