Printing date 07/25/2024 Reviewed on 07/25/2024

1 Identification

· Product identifier

· Trade name: Stock Solution for

HP 23

· Article number: THE375

· 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.

Aspiration Hazard 1 H304 May be fatal if swallowed and enters airways.



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)

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(Contd. of page 1)

- · Signal word Danger
- · 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/shower.

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 regulations.

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



Health = 1 Fire = 3 Reactivity = 0

· HMIS-ratings (scale 0 - 4)



- · Other hazards
- · Results of PBT and vPvB assessment
- · **PBT:** Not applicable.

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(Contd. of page 2)

· vPvB: Not applicable.

3 Composition/information on ingredients

- · Chemical characterization: Mixtures
- · **Description:** Mixture of the substances listed below with nonhazardous additions.

· Dangerous com	ponents:	
CAS: 108-88-3	Toluene	98.729%
CAS: 67-56-1	Methanol	0.347%
CAS: 1634-04-4	Methyl Tert-Butyl Ether (MTBE)	0.347%
-	zardous Ingredients	
CAS: 71-23-8 n	-propanol	0.289%
CAS: 67-64-1 A	cetone	0.173%
CAS: 78-93-3 N	1ethyl Ethyl Ketone	0.116%

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.

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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

CAS: 108-88-3	Toluene	67 ppm
CAS: 67-56-1	Methanol	530 ppi
	Methyl Tert-Butyl Ether (MTBE)	50 ppm
CAS: 71-23-8	n-propanol	250 ppi
CAS: 67-64-1	Acetone	200 ppi
CAS: 78-93-3	Methyl Ethyl Ketone	200 pps
PAC-2:		
CAS: 108-88-3	Toluene	560 ppm
CAS: 67-56-1	Methanol	2,100 ppn
CAS: 1634-04-4	Methyl Tert-Butyl Ether (MTBE)	570 ppm
CAS: 71-23-8	n-propanol	670 ppm
CAS: 67-64-1	Acetone	3200* pp.
CAS: 78-93-3	Methyl Ethyl Ketone	2700* pp.
<i>PAC-3:</i>		
CAS: 108-88-3	Toluene	3700* pp.
CAS: 67-56-1	Methanol	7200* pp.
CAS: 1634-04-4	Methyl Tert-Butyl Ether (MTBE)	5300* pp.
CAS: 71-23-8	n-propanol	4000* pp
CAS: 67-64-1	Acetone	5700* pp.
CAS: 78-93-3	Methyl Ethyl Ketone	4000* pp

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.

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Keep respiratory protective device available.

(Contd. of page 4)

- · 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	walnes	that	vaaniva	manitarina	at the	warknlagg
Components	wiin	umu	vuiues	ınııı	require	monuoring	ui ine	workpluce.

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

CAS: 67-56-1 Methanol

PEL Long-term value: 260 mg/m³, 200 ppm

REL Short-term value: 325 mg/m³, 250 ppm

Long-term value: 260 mg/m³, 200 ppm

Skin

TLV Short-term value: 250 ppm

Long-term value: 200 ppm

Skin; BEIc

CAS: 1634-04-4 Methyl Tert-Butyl Ether (MTBE)

TLV Long-term value: 50 ppm

A3

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· Ingredients with biological limit values:

CAS: 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: 67-56-1 Methanol

BEI 15 mg/L

LD50 Intraperitoneal: urine

Time: end of shift

LD50: Methanol (background, 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.

Store protective clothing separately.

Avoid contact with the skin.

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.

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.

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· Eye protection:



Tightly sealed goggles

· Body protection: Protective work clothing

Information on basic physical and co	hemical properties
General Information	
Appearance:	11
Form:	Liquid Clear
Color: Odor:	Crear Organic
Odor threshold:	Not determined.
pH-value:	Not determined.
<u>-</u>	1107 Wester marteu.
Change in condition	-95 °C (-139 °F)
Melting point/Melting range:	-95 °C (-139 °F) 110 °C (230 °F)
Boiling point/Boiling range:	
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/vap 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):	0.86561 g/cm³ (7.22352 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/wate	r): Not determined.
Viscosity:	
Dynamic:	Not determined.
Kinematic:	Not determined.

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		(Contd. of page 7
· Solvent content:		
Organic solvents:	100.0 %	
VOC content:	99.83 %	
	864.1 g/l / 7.21 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:		
Ī	ATE (Acu	te Toxicity	Estimate)
Ī	Oral	LD50	28,852 mg/kg
	Dermal	LD50	66,581 mg/kg
	Inhalative	LC50/4h	866 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: Irritant

· Carcinogenic categories

· IARC (Internatio	onal Agency for Research on Cancer)	
CAS: 108-88-3	Toluene	3
CAS: 1634-04-4	Methyl Tert-Butyl Ether (MTBE)	3
· NTP (National T	Toxicology Program)	
None of the ingre	edients is listed.	
· OSHA-Ca (Occu	pational Safety & Health Administration)	
None of the ingre	edients 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.

14 Transport information

- · UN-Number
- · DOT, IMDG, IATA

UN1993

- · UN proper shipping name
- $\cdot DOT$

· DOT · IMDG, IATA Flammable liquids, n.o.s. (Toluene) FLAMMABLE LIQUID, N.O.S. (Toluene)

- · Transport hazard class(es)
- $\cdot DOT$



· Class 3 Flammable liquids

· Label

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	(Contd. of page
IMDG, IATA	
<u> </u>	
3	
Class	3 Flammable liquids
Label	3
Packing group	
DOT, IMDG, IATA	II
Environmental hazards:	Not applicable.
Special precautions for user	Warning: Flammable liquids
Hazard identification number (Kemler code,	
EMS Number:	F-E, <u>S-E</u>
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)	IL
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. (TOLUENE), 3, II

15 Regulatory information

· Safety, health and environmental regulations/legislation specific for the substance or mixture No further relevant information available.

· Sara	mi injormation avaitable.	
· Section 355 (ext	remely hazardous substances):	
None of the ingre	edients is listed.	
· Section 313 (Spe	cific toxic chemical listings):	
CAS: 108-88-3	Toluene	
CAS: 67-56-1	Methanol	
CAS: 1634-04-4	Methyl Tert-Butyl Ether (MTBE)	
· TSCA (Toxic Su	bstances Control Act):	
Toluene		ACTIVE
Methanol		ACTIVE
Methyl Tert-Buty	l Ether (MTBE)	ACTIVE
n-propanol		ACTIVE
		(Contd. on page 11)

-US

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Acetone		(Contd. of pag		
	ACTI ACTI			
меінуі Еінуі Кеі	Methyl Ethyl Ketone			
Hazardous Air I	ollutants	<u> </u>		
CAS: 108-88-3	Toluene			
CAS: 67-56-1	Methanol			
CAS: 1634-04-4	Methyl Tert-Butyl Ether (MTBE)			
Proposition 65				
Chemicals know	n to cause cancer:			
None of the ingre	dients is listed.			
Chemicals know	n to cause reproductive toxicity for females:			
None of the ingre	dients is listed.			
Chemicals know	n to cause reproductive toxicity for males:			
None of the ingre	dients is listed.			
Chemicals know	n to cause developmental toxicity:			
CAS: 108-88-3	Toluene			
CAS: 67-56-1	1ethanol			
Carcinogenic ca	tegories			
	ental Protection Agency)			
CAS: 108-88-3	Toluene			
CAS: 67-64-1				
CAS: 78-93-3	Methyl Ethyl Ketone			
TLV (Threshold	Limit Value)			
CAS: 108-88-3	Toluene			
CAS: 1634-04-4	Methyl Tert-Butyl Ether (MTBE)			
CAS: 71-23-8	n-propanol			
CAS: 67-64-1	Acetone			
MOCH C (M	onal Institute for Occupational Safety and Health)			

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







GHS02 GHS07

- · **Signal word** Danger
- · Hazard-determining components of labeling:

Toluene

· Hazard statements

Highly flammable liquid and vapor.

Causes skin irritation.

Suspected of damaging fertility or the unborn child.

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(Contd. of page 11)

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/shower.

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 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, 07-24-2024: 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

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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.