Printing date 12/07/2017 Reviewed on 12/07/2017

1 Identification

· Product identifier

· Trade name: Ethylbenzene 1.5%

in Xylenes

· Article number: MOB093

· 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

Canutec: 613-996-6666

Sherman Nelson sherman@aquasolutions.org

· Emergency telephone number: Chemtrec: 800-424-9300



2 Hazard(s) identification

· Classification of the substance or mixture



GHS02 Flame

Flam. Liq. 2 H225 Highly flammable liquid and vapor.



GHS08 Health hazard

Carc. 2 H351 Suspected of causing cancer.

STOT RE 2 H373 May cause damage to organs through prolonged or repeated exposure.



GHS07

Acute Tox. 4 H332 Harmful if inhaled.

Skin Irrit. 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

GHS08

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

m-xylene

Ethylbenzene, Anhydrous, 99.8%

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p-Xylene

o-Xylene

· Hazard statements

Highly flammable liquid and vapor.

Harmful if inhaled.

Causes skin irritation.

Suspected of causing cancer.

May cause damage to organs through prolonged or repeated exposure.

· 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.

Keep container tightly closed.

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 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.

Specific treatment (see on this label).

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 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 = 3Reactivity = 0

· HMIS-ratings (scale 0 - 4)



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

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in Xylenes

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3 Composition/information on ingredients

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

· Dangerous components:			
CAS: 108-38-3	m-xylene	70.0%	
CAS: 106-42-3	p-Xylene	19.0%	
CAS: 95-47-6	o-Xylene	9.5%	
CAS: 100-41-4	Ethylbenzene, Anhydrous, 99.8%	1.5%	

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:

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 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.

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Trade name: Ethylbenzene 1.5% in Xylenes

See Section 13	for disposal information.	(Contd. of page 3
	on Criteria for Chemicals	
CAS: 108-38-3	m-xylene	130 ppm
CAS: 100-41-4	Ethylbenzene, Anhydrous, 99.8%	33 ppm
· PAC-2:		
CAS: 108-38-3	m-xylene	920 ppm
CAS: 100-41-4	Ethylbenzene, Anhydrous, 99.8%	1100* ppm
· PAC-3:		
CAS: 108-38-3	m-xylene	2500* ppm
CAS: 100-41-4	Ethylbenzene, Anhydrous, 99.8%	1800* ppm

7 Handling and storage

- · Handling:
- · Precautions for safe handling Ensure good ventilation/exhaustion at the workplace.
- · 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: 108-38-3 m-xylene		
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 Short-term value: 651 mg/m³, 150 ppm Long-term value: 434 mg/m³, 100 ppm BEI		
CAS: 106-42-3 p-Xylene		
PEL Long-term value: 435 mg/m³, 100 ppm		

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REL Short-term value: 655 mg/m³, 150 ppm Long-term value: 435 mg/m³, 100 ppm TLV Short-term value: 434 mg/m³, 100 ppm BEI CAS: 95-47-6 o-Xylene 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 REL Short-term value: 651 mg/m³, 150 ppm Long-term value: 435 mg/m³, 100 ppm TLV Short-term value: 651 mg/m³, 150 ppm Long-term value: 434 mg/m³, 100 ppm BEI CAS: 100-41-4 Ethylbenzene, Anhydrous, 99.8% PEL Long-term value: 435 mg/m³, 100 ppm REL Short-term value: 87 mg/m³, 20 ppm BEI -Ingredients with biological limit values: CAS: 108-38-3 m-xylene BEI 1.5 g/g creatinine LD50 Intraperitoneal: urine Time: end of shift LD50: Methylhippuric acids CAS: 106-42-3 p-Xylene BEI 1.5 g/g creatinine LD50 Intraperitoneal: urine Time: end of shift LD50: Methylhippuric acids CAS: 95-47-6 o-Xylene BEI 1.5 g/g creatinine LD50 Intraperitoneal: urine Time: end of shift LD50: Methylhippuric acids CAS: 100-41-4 Ethylbenzene, Anhydrous, 99.8% BEI 0.7 g/g creatinine LD50 Intraperitoneal: urine Time: end of shift at end of workweek LD50: Sum of mandelic acid and phenylglyoxylic acid (nonspecific, semi-quantitative)		(Contd. of page 4)
TLV Short-term value: 651 mg/m³, 150 ppm Long-term value: 434 mg/m³, 100 ppm BEI CAS: 95-47-6 o-Xylene PEL Long-term value: 435 mg/m², 100 ppm REL Short-term value: 655 mg/m³, 150 ppm Long-term value: 435 mg/m³, 100 ppm TLV Short-term value: 651 mg/m³, 100 ppm BEI CAS: 100-41-4 Ethylbenzene, Anhydrous, 99.8% PEL Long-term value: 435 mg/m³, 100 ppm REL Short-term value: 435 mg/m³, 100 ppm Long-term value: 435 mg/m³, 100 ppm Long-term value: 345 mg/m³, 100 ppm TLV Long-term value: 87 mg/m³, 125 ppm Long-term value: 87 mg/m³, 20 ppm BEI -Ingredients with biological limit values: CAS: 108-38-3 m-xylene BEI 1.5 g/g creatinine LD50 Intraperitoneal: urine Time: end of shift LD50: Methylhippuric acids CAS: 95-47-6 o-Xylene BEI 1.5 g/g creatinine LD50 Intraperitoneal: urine Time: end of shift LD50: Methylhippuric acids CAS: 95-47-6 o-Xylene BEI 1.5 g/g creatinine LD50 Intraperitoneal: urine Time: end of shift LD50: Methylhippuric acids CAS: 100-41-4 Ethylbenzene, Anhydrous, 99.8% BEI 0.7 g/g creatinine LD50 Intraperitoneal: urine Time: end of shift arend of workweek	REL	
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Time: end of shift LD50: Methylhippuric acids CAS: 95-47-6 o-Xylene BEI 1.5 g/g creatinine LD50 Intraperitoneal: urine Time: end of shift LD50: Methylhippuric acids CAS: 100-41-4 Ethylbenzene, Anhydrous, 99.8% BEI 0.7 g/g creatinine LD50 Intraperitoneal: urine Time: end of shift at end of workweek		
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LD50 Intraperitoneal: urine Time: end of shift LD50: Methylhippuric acids CAS: 100-41-4 Ethylbenzene, Anhydrous, 99.8% BEI 0.7 g/g creatinine LD50 Intraperitoneal: urine Time: end of shift at end of workweek		•
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BEI 0.7 g/g creatinine LD50 Intraperitoneal: urine Time: end of shift at end of workweek		
LD50 Intraperitoneal: urine Time: end of shift at end of workweek		· · · · · · · · · · · · · · · · · · ·
Time: end of shift at end of workweek		
ED30. Sum of manaetic acta and phenyigiyoxytic acta (nonspecific, semi-quantitative)		
		DD50. Sum of manuetic acta and prienyigiyoxytic acta (nonspecific, semi-quantitative)
-		-
LD50 Intraperitoneal: end-exhaled air		
Time: not critical		
LD50: Ethyl benzene (semi-quantitative) Additional information: The lists that were valid during the creation were used as basis		

· Additional information: The lists that were valid during the creation were used as basis.

(Contd. on page 6)

Printing date 12/07/2017 Reviewed on 12/07/2017

Trade name: Ethylbenzene 1.5% in Xylenes

(Contd. of page 5)

- · 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.

· Eye protection:



Tightly sealed goggles

· Body protection: Protective work clothing

9 Physical and chemical properties

- · Information on basic physical and chemical properties
- · General Information
- · Appearance:

Form: Liquid Color: Clear · Odor: Distinct · Odor threshold:

Not determined.

· pH-value: Not determined.

· Change in condition

Melting point/Melting range: Undetermined. Boiling point/Boiling range: 138 °C (280.4 °F)

(Contd. on page 7)

Printing date 12/07/2017 Reviewed on 12/07/2017

Trade name: Ethylbenzene 1.5% in Xylenes

	(Contd. of page
Flash point:	17 °C (62.6 °F)
Flammability (solid, gaseous):	Not applicable.
Ignition temperature:	465 °C (869 °F)
Decomposition temperature:	Not determined.
Auto igniting:	Product is not selfigniting.
Danger of explosion:	Product is not explosive. However, formation of explosive air/vapo mixtures are possible.
Explosion limits:	
Lower:	1.7 Vol %
Upper:	7.6 Vol %
Vapor pressure at 20 °C (68 °F):	8.2 hPa (6.2 mm Hg)
Density at 20 °C (68 °F):	0.83861 g/cm³ (6.9982 lbs/gal)
Relative density	Not determined.
Vapor density	Not determined.
Evaporation rate	Not determined.
Solubility in / Miscibility with	
Water:	Not miscible or difficult to mix.
Partition coefficient (n-octanol/wate	e r): Not determined.
Viscosity:	
Dynamic:	Not determined.
Kinematic:	Not determined.
Solvent content:	
Organic solvents:	100.0 %
VOC content:	100.00 %
	838.6 g/l / 7.00 lb/gl
Solids content:	0.0 %
Other information	No further relevant information available.

10 Stability and reactivity

- $\cdot \textit{Reactivity No further relevant information available}.$
- · 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.

Printing date 12/07/2017 Reviewed on 12/07/2017

Trade name: Ethylbenzene 1.5%

in Xylenes

(Contd. of page 7)

11 Toxicological information

- · Information on toxicological effects
- · Acute toxicity:

	· LD/LC50 values that are relevant for classification:		
ATE (Acute Toxicity Estimate)			Estimate)
	Oral	LD50	5,618 mg/kg (rat)
	Dermal	LD50	3,860 mg/kg
	Inhalative	LC50/4 h	11 mg/l

Oral LD50 5,000 mg/kg (rat) Dermal LD50 14,100 mg/kg (rabbit) Inhalative LC50/4 h 11 mg/l (ATE)

CAS: 106-42-3 p-Xylene

CAS: 108-38-3 m-xylene

Dermal LD50 1,100 mg/kg (ATE)
Inhalative LC50/4 h 11 mg/l (ATE)

CAS: 95-47-6 o-Xylene

 Dermal
 LD50
 1,100 mg/kg (ATE)

 Inhalative
 LC50/4 h
 11 mg/l (ATE)

- · 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

Irritant

· Carcinogenic categories

· IARC (International Agency for Research on Cancer)		
CAS: 108-38-3	m-xylene	3
CAS: 106-42-3	p-Xylene	3
CAS: 95-47-6	o-Xylene	3
CAS: 100-41-4	Ethylbenzene, Anhydrous, 99.8%	2B
NTD (National Toxicalors Programs)		

· 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.

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Trade name: Ethylbenzene 1.5% in Xylenes

(Contd. of page 8)

- · 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.

UN-Number DOT, IMDG, IATA	UN1993
UN proper shipping name DOT IMDG, IATA	Flammable liquids, n.o.s. (Xylenes, Xylenes, Xylenes, Ethylbenzene FLAMMABLE LIQUID, N.O.S. (XYLENES, XYLENES, XYLENE ETHYLBENZENE)
Transport hazard class(es)	
DOT	
RAMMBE LUID 3 Class	3 Flammable liquids
Label	3 1 tummaste tiquitas 3
IMDG, IATA	

Class	3 Flammable liquids
Label	3
Packing group DOT, IMDG, IATA	III

Printing date 12/07/2017 Reviewed on 12/07/2017

Trade name: Ethylbenzene 1.5%

in Xylenes

	(Contd. of page
Environmental hazards:	
Marine pollutant:	No
Special precautions for user	Warning: Flammable liquids
Danger code (Kemler):	33
EMS Number:	F- E , S - E
Stowage Category	A
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)	1L
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 LIQUIDS, N.O.S. (XYLENES, XYLENE
-	XYLENES, ETHYLBENZENE), 3, III

15 Regulatory information

- · Safety, health and environmental regulations/legislation specific for the substance or mixture
- · Sara
- · Section 355 (extremely hazardous substances):

None of the ingredients is listed.

· Section 313 (Specific toxic chemical listings):

All ingredients are listed.

· TSCA (Toxic Substances Control Act):

m-xylene

p-Xylene

o-Xylene

Ethylbenzene, Anhydrous, 99.8%

· Proposition 65

· Chemicals known to cause cancer:

CAS: 100-41-4 Ethylbenzene, Anhydrous, 99.8%

· 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:

None of the ingredients is listed.

(Contd. on page 11)

Printing date 12/07/2017 Reviewed on 12/07/2017

Trade name: Ethylbenzene 1.5% in Xylenes

(Contd. of page 10)

· Carcinogenic categories

· Carcinogenic categories				
· EPA (Environmental Protection Agency)				
CAS: 108-38-3	m-xylene	I		
CAS: 106-42-3	p-Xylene	I		
CAS: 95-47-6	o-Xylene	I		
CAS: 100-41-4	Ethylbenzene, Anhydrous, 99.8%	D		
· TLV (Threshold Limit Value established by ACGIH)				
CAS: 108-38-3	m-xylene	A4		
CAS: 106-42-3	p-Xylene	A4		
CAS: 95-47-6	o-Xylene	A4		
CAS: 100-41-4	Ethylbenzene, Anhydrous, 99.8%	A3		
· NIOSH-Ca (No	ational 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







GHS02

GHS07

GHS08

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

m-xylene

Ethylbenzene, Anhydrous, 99.8%

p-Xylene

o-Xylene

· Hazard statements

Highly flammable liquid and vapor.

Harmful if inhaled.

Causes skin irritation.

Suspected of causing cancer.

May cause damage to organs through prolonged or repeated exposure.

· 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.

Keep container tightly closed.

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 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.

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Trade name: Ethylbenzene 1.5% in Xylenes

(Contd. of page 11)

Call a poison center/doctor if you feel unwell.

Get medical advice/attention if you feel unwell.

Specific treatment (see on this label).

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 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

12-07-2017: review SDS for accuracy. STN

Revision 0.0, 06-23-2015: Creation date for SDS. STN

12/07/2017 / -

· 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

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

REL: Recommended Exposure Limit

BEI: Biological Exposure Limit

Flam. Liq. 2: Flammable liquids - Category 2

Acute Tox. 4: Acute toxicity - Category 4

Skin Irrit. 2: Skin corrosion/irritation – Category 2

Carc. 2: Carcinogenicity - Category 2

STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2

- US