Printing date 12/08/2017 Reviewed on 12/08/2017

1 Identification

· Product identifier

· Trade name: Benzene & Toluene 10% w/w in Heptane/Pentane 50:50 Matrix

· Article number: MOT091

· 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 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.



GHS06 Skull and crossbones

Acute Tox. 3 H311 Toxic in contact with skin.



GHS08 Health hazard

Muta. 1B H340 May cause genetic defects.

Carc. 1A H350 May cause cancer.

Repr. 2 H361 Suspected of damaging fertility or the unborn child.

STOT RE 1 H372 Causes damage to organs through prolonged or repeated exposure.

Asp. Tox. 1 H304 May be fatal if swallowed and enters airways.



GHS07

Skin Irrit. 2 H315 Causes skin irritation.

Eye Irrit. 2A H319 Causes serious eye irritation.

STOT SE 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).

 (Contd. on page 2)

page 2

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Trade name: Benzene & Toluene 10% w/w in Heptane/Pentane 50:50 Matrix

(Contd. of page 1)

· Hazard pictograms









GHS02

GHS07

GHS06

· Signal word Danger

· Hazard-determining components of labeling:

Benzene

n-Heptane

Toluene

Pentane

· Hazard statements

Highly flammable liquid and vapor.

Toxic in contact with skin.

Causes skin irritation.

Causes serious eye irritation.

May cause genetic defects.

May cause cancer.

Suspected of damaging fertility or the unborn child.

May cause drowsiness or dizziness.

Causes 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.

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.

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.

If eye irritation persists: Get medical advice/attention.

Take off immediately all 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.

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Trade name: Benzene & Toluene 10% w/w in Heptane/Pentane 50:50 Matrix

(Contd. of page 2)

Store locked up.

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

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



Health = 2Fire = 4Reactivity = 0

· HMIS-ratings (scale 0 - 4)



Health = *2Fire = 4

- · 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 con	ponents:	
CAS: 142-82-5	n-Heptane	40.0%
CAS: 109-66-0	Pentane	40.0%
CAS: 71-43-2	Benzene	10.0%
CAS: 108-88-3	Toluene	10.0%

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.

In case of irregular breathing or respiratory arrest provide artificial respiration.

- · 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. If symptoms persist, consult a doctor.

- · 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.

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Trade name: Benzene & Toluene 10% w/w in Heptane/Pentane 50:50 Matrix

(Contd. of page 3)

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.

· Protective Action Criteria for Chemicals

· PAC-1:		
CAS: 142-82-5	n-Heptane	500 ppm
CAS: 109-66-0	Pentane	3000* ppm
CAS: 71-43-2	Benzene	52 ppm
CAS: 108-88-3	Toluene	67 ppm
· PAC-2:		
CAS: 142-82-5	n-Heptane	830 ppm
CAS: 109-66-0	Pentane	33000*** ppm
CAS: 71-43-2	Benzene	800 ppm
CAS: 108-88-3	Toluene	560 ppm
· PAC-3:		
CAS: 142-82-5	n-Heptane .	5000* ppm
CAS: 109-66-0	Pentane .	200000*** ppm
CAS: 71-43-2	Benzene	4000* ppm
CAS: 108-88-3	Toluene .	3700* 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.

(Contd. on page 5)

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Trade name: Benzene & Toluene 10% w/w in Heptane/Pentane 50:50 Matrix

(Contd. of page 4)

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	roquire	manitarina	at the	worknlace
· Components	wiiii	umu	vuiues	mui	require	monuoring	ui ine	workplace.

CAS: 142-82-5 n-Heptane

PEL Long-term value: 2000 mg/m³, 500 ppm

REL Long-term value: 350 mg/m³, 85 ppm

Ceiling limit value: 1800* mg/m³, 440* ppm

*15-min

TLV Short-term value: 2050 mg/m³, 500 ppm

Long-term value: 1640 mg/m³, 400 ppm

CAS: 109-66-0 Pentane

PEL Long-term value: 2950 mg/m³, 1000 ppm

REL Long-term value: 350 mg/m³, 120 ppm

Ceiling limit value: 1800* mg/m³, 610* ppm

*15-min

TLV Long-term value: 2950 mg/m³, 1000 ppm

CAS: 71-43-2 Benzene

PEL Short-term value: 15* mg/m³, 5* ppm

Long-term value: 3* mg/m³, 1* ppm

*table Z-2 for exclusions in 29CFR1910.1028(d)

REL Short-term value: 1 ppm

Long-term value: 0.1 ppm

See Pocket Guide App. A

TLV Short-term value: 8 mg/m³, 2.5 ppm

Long-term value: 1.6 mg/m³, 0.5 ppm

Skin; BEI

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 6)

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Trade name: Benzene & Toluene 10% w/w in Heptane/Pentane 50:50 Matrix

(Contd. of page 5)

· Ingredients with biological limit values:

CAS: 71-43-2 Benzene

BEI 25 µg/g creatinine

LD50 Intraperitoneal: urine Time: end of shift Parameter

LD50: S-Phenylmercapturic acid (background

500 μg/g creatinine

LD50 Intraperitoneal: urine

Time: end of shift

LD50: t,t-Muconic acid (background)

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)

- · 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 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.

(Contd. on page 7)

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Trade name: Benzene & Toluene 10% w/w in Heptane/Pentane 50:50 Matrix

(Contd. of page 6)

· 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

Physical and chemical proper	ties
· Information on basic physical and o · General Information	chemical properties
· Appearance:	
Form:	Liquid
Color:	Clear
· Odor:	Like aromatic solvents
· 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:	-35 °C (-31 °F)
· Flammability (solid, gaseous):	Not applicable.
· Ignition temperature:	215 °C (419 °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:	1.1 Vol %
Upper:	8 Vol %
· Vapor pressure at 20 °C (68 °F):	573 hPa (429.8 mm Hg)

0.69718 g/cm³ (5.81797 lbs/gal)

Not determined.

Not determined.

Not determined.

· Solubility in / Miscibility with

· Density at 20 °C (68 °F):

· Relative density · Vapor density

· Evaporation rate

Water: Not miscible or difficult to mix.

· Partition coefficient (n-octanol/water): Not determined.

· Viscosity:

Dynamic: Not determined.

(Contd. on page 8)

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Trade name: Benzene & Toluene 10% w/w in Heptane/Pentane 50:50 Matrix

	(Contd. of page
Kinematic:	Not determined.
· Solvent content:	
Organic solvents:	100.0 %
VOC content:	100.00 %
	697.2 g/l / 5.82 lb/gl
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

· Informatio · Acute toxio		cological effects
· LD/LC50	values that	are relevant for classification:
ATE (Acut	te Toxicity	Estimate)
Oral	LD50	>4,159 mg/kg (rat)
Dermal	LD50	480 mg/kg (mouse)
Inhalative	LC50/4 h	>50 mg/l (rat)
CAS: 142-	82-5 n-He	ptane
Inhalative	LC50/4 h	103,000 mg/l (rat)
CAS: 109-	66-0 Penta	nne
Oral	LD50	>2,000 mg/kg (rat)
Inhalative	LC50/4 h	>20 mg/l (rat)
CAS: 71-4	3-2 Benzer	ne
Dermal	LD50	5 mg/kg (ATE)
CAS: 108-	88-3 Tolue	ene
Oral	LD50	5,000 mg/kg (rat)
Dermal	LD50	12,124 mg/kg (rabbit)
Inhalative	LC50/4 h	5,320 mg/l (mouse)

- · 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**

(Contd. on page 9)

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Trade name: Benzene & Toluene 10% w/w in Heptane/Pentane 50:50 Matrix

(Contd. of page 8)

Irritant

The product can cause inheritable damage.

· Carcinogenic categories	
· IARC (International Agency for Research on Cancer)	
CAS: 71-43-2 Benzene	1
CAS: 108-88-3 Toluene	3
· NTP (National Toxicology Program)	
CAS: 71-43-2 Benzene	K
· OSHA-Ca (Occupational Safety & Health Administration)	
CAS: 71-43-2 Benzene	

12 Ecological information

- · Toxicity
- · Aquatic toxicity: No further relevant information available.
- · Persistence and degradability No further relevant information available.
- · Behavior in environmental systems:
- $\cdot \textit{Bioaccumulative potential No further relevant information available}.$
- · Mobility in soil No further relevant information available.
- $\cdot \textit{Additional ecological information:}$
- · General notes:

Water hazard class 3 (Self-assessment): extremely hazardous for water

Do not allow product to reach ground water, water course or sewage system, even in small quantities.

Danger to drinking water if even extremely 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.

71992
ummable liquids, toxic, n.o.s. (Pentanes, Heptanes, Benzene uene)
a

(Contd. on page 10)

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Trade name: Benzene & Toluene 10% w/w in Heptane/Pentane 50:50 Matrix

	(Contd. of page
IMDG	FLAMMABLE LIQUID, TOXIC, N.O.S. (PENTANES, HEPTANES BENZENE, TOLUENE), MARINE POLLUTANT
IATA	FLAMMABLE LIQUID, TOXIC, N.O.S. (PENTANES, HEPTANES BENZENE, TOLUENE)
Transport hazard class(es)	
DOT	
RAMABLE LOJD TOXIC	
Class Label	3 Flammable liquids 3, 6.1
· IMDG	J, U.1
3	
· Class · Label	3 Flammable liquids 3/6.1
· IATA	
Class	3 Flammable liquids
Label	3 (6.1)
Packing group DOT, IMDG, IATA	II
Environmental hazards:	Product contains environmentally hazardous substances: n-Heptan Pentane
Marine pollutant:	Symbol (fish and tree)
Special precautions for user	Warning: Flammable liquids
Danger code (Kemler):	336
EMS Number:	F-E,S-D
Stowage Category Stowage Code	B SW2 Clear of living quarters.
Transport in bulk according to Annex I MARPOL73/78 and the IBC Code	II of Not applicable.
Transport/Additional information:	
DOT	
	On pagang an ainquaft/nail, 1 I
Quantity limitations	On passenger aircraft/rail: 1 L On cargo aircraft only: 60 L

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Trade name: Benzene & Toluene 10% w/w in Heptane/Pentane 50:50 Matrix

· IMDG
· Limited quantities (LQ)
· Excepted quantities (EQ)

Maximum net quantity per inner packaging: 30 ml
Maximum net quantity per outer packaging: 500 ml

· UN "Model Regulation":

UN 1992 FLAMMABLE LIQUIDS, TOXIC, N.O.S. (PENTANES, HEPTANES, BENZENE, TOLUENE), 3 (6.1), II

Regulatory informa		and Indonesia and a state of
Safety, health and envil Sara	onmental regulations/legislation specific for the	substance or mixture
Section 355 (extremely	hazardous substances):	
None of the ingredients	•	
Section 313 (Specific to	xic chemical listings):	
CAS: 71-43-2 Benzen	_	
CAS: 108-88-3 Toluene		
TSCA (Toxic Substance	s Control Act):	
n-Heptane		
Pentane		
Benzene		
Toluene		
Proposition 65		
Chemicals known to ca	ise cancer:	
CAS: 71-43-2 Benzene		
Chemicals known to ca	use reproductive toxicity for females:	
None of the ingredients	s listed.	
Chemicals known to ca	use reproductive toxicity for males:	
CAS: 71-43-2 Benzene		
Chemicals known to ca	use developmental toxicity:	
CAS: 71-43-2 Benzen		
CAS: 108-88-3 Toluene		
Carcinogenic categorie		
EPA (Environmental P		
CAS: 142-82-5 n-Hepto	e · · · · · · · · · · · · · · · · · · ·	D
CAS: 71-43-2 Benzen		A, I
CAS: 108-88-3 Toluene		II
TLV (Threshold Limit	Value established by ACGIH)	
CAS: 71-43-2 Benzen		
CAS: 108-88-3 Toluene		
NIOSH-Ca (National I	nstitute for Occupational Safety and Health)	

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Trade name: Benzene & Toluene 10% w/w in Heptane/Pentane 50:50 Matrix

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









GHS06

· Signal word Danger

· Hazard-determining components of labeling:

Benzene

n-Heptane

Toluene

Pentane

· Hazard statements

Highly flammable liquid and vapor.

Toxic in contact with skin.

Causes skin irritation.

Causes serious eye irritation.

May cause genetic defects.

May cause cancer.

Suspected of damaging fertility or the unborn child.

May cause drowsiness or dizziness.

Causes 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.

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.

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.

If eye irritation persists: Get medical advice/attention.

Take off immediately all 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.

(Contd. on page 13)

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Trade name: Benzene & Toluene 10% w/w in Heptane/Pentane 50:50 Matrix

(Contd. of page 12)

Store in a well-ventilated place. Keep cool.

Store locked up.

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

- · National regulations:
- · Additional classification according to Decree on Hazardous Materials:

Carcinogenic hazardous material group III (dangerous).

· Information about limitation of use:

Workers are not allowed to be exposed to the hazardous carcinogenic materials contained in this preparation. Exceptions can be made by the authorities in certain cases.

· 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

12-08-2017: review SDS for accuracy. STN

Revision 0.0, 10-02-2015; Creation date for SDS. STN

12/08/2017 / -

· 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. 3: Acute toxicity – Category 3

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

Eye Irrit. 2A: Serious eye damage/eye irritation – Category 2A

Muta. 1B: Germ cell mutagenicity – Category 1B

Carc. 1A: Carcinogenicity – Category 1A

Repr. 2: Reproductive toxicity – Category 2

STOT SE 3: Specific target organ toxicity (single exposure) – Category 3

STOT RE 1: Specific target organ toxicity (repeated exposure) – Category 1

Asp. Tox. 1: Aspiration hazard – Category 1