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| Identification  |   |
|---|---|
| Product identifier  |   |
| Trade name: Toluene / Isopropanol   |   |
| <u>75/25% v/v Solution</u>  |   |
| Article number: AME003  |   |
| Details of the supplier of the safety data sheet<br>Manufacturer/Supplier:                  |   |
| Aqua Solutions, Inc.  |   |
| 6913 Highway 225  | SOLUTIONS                                 |
| DEER PARK, TX 77536<br>USA  |   |
| 800-256-2586  |   |
| Information department:   |   |
| Technical Coordinator   |   |
| Sherman Nelson sherman@aquasolutions.org<br>• <b>Emergency telephone number:</b>            |   |
| Chemtrec: 800-424-9300  |   |
| Canutec: 613-996-6666   |   |
|   |   |
| P Hazard(s) identification  |   |
| Classification of the substance or mixture  |   |
|   |   |
| GHS02 Flame   |   |
|   |   |
| Flam. Liq. 2 H225 Highly flammable liquid and vapor.  |   |
|   |   |
| GHS08 Health hazard   |   |
| <i>Repr.</i> 2 <i>H361 Suspected of damaging fertility or the unborn c</i>                  | child                                     |
| STOT RE 2 H373 May cause damage to organs through prolonge                                  |   |
| Asp. Tox. 1 H304 May be fatal if swallowed and enters airways.                              |   |
|   |   |
| GHS07   |   |
| $\mathbf{\vee}$   |   |
| 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  | a to the Clobally Hammenia 1.6 (CHC       |
| • GHS label elements The product is classified and labeled according<br>• Hazard pictograms | g to the Globally Harmonized System (GHS) |
|   |   |
|   |   |
|   |   |
|   |   |
| GHS02 GHS07 GHS08   |   |
| GHS02 GHS07 GHS08<br>Signal word Danger   |   |

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Trade name: Toluene / Isopropanol 75/25% v/v Solution

| (Con  | ntd. of page 1) |
|---|-----------------|
| Hazard-determining components of labeling:  |                 |
| Toluene   |                 |
| sopropanol  |                 |
| Hazard statements   |                 |
| Highly flammable liquid and vapor.  |                 |
| Causes skin irritation.   |                 |
| Causes serious eye 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  |                 |
| Destain 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.                          |                 |
| F SWALLOWED: Immediately call a POISON CENTER/ doctor.  |                 |
|   |                 |
| f on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.  |                 |
| <i>F INHALED: Remove person to fresh air and keep comfortable for breathing.</i>                    | agan ta da      |
| f in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and a | easy to ao      |
| Continue rinsing.   |                 |
| <i>F exposed or concerned: Get medical advice/attention.</i>  |                 |
| 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.   |                 |
| f skin irritation occurs: Get medical advice/attention.   |                 |
| f eye irritation persists: 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)  |                 |
| Health = 1  |                 |
| $\frac{3}{Fire} = 3$  |                 |
|   |                 |
| $\mathbf{U}  Reactivity = 0$  |                 |
| HMIS-ratings (scale 0 - 4)  |                 |
| <b>HEALTH</b> 1 Health = $*1$   |                 |
| FIRE 3 Fire = 3   |                 |
| $\begin{array}{c} \text{REACTIVITY} \\ \hline 0 \end{array}  Reactivity = 0 \end{array}$            |                 |
|   |                 |

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Trade name: Toluene / Isopropanol 75/25% v/v Solution

(Contd. of page 2)

- · 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 components:

| 8             |             |         |
|---------------|-------------|---------|
| CAS: 108-88-3 | Toluene     | 78.106% |
| CAS: 67-63-0  | Isopropanol | 21.894% |
|               |             |         |

#### 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. 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.

#### **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.
- · 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: Dilute with plenty of water.
- 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.

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# Trade name: Toluene / Isopropanol

75/25% v/v Solution

(Contd. of page 3) · 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: 108-88-3 Toluene 67 ppm Isopropanol 400 ppm CAS: 67-63-0 · PAC-2: CAS: 108-88-3 Toluene 560 ppm CAS: 67-63-0 Isopropanol 2000\* ppm · PAC-3: CAS: 108-88-3 Toluene 3700\* ppm CAS: 67-63-0 Isopropanol 12000\*\* ppm

# 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.
- $\cdot$  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 ToluenePELLong-term value: 200 ppm<br/>Ceiling limit value: 300; 500\* ppm<br/>\*10-min peak per 8-hr shiftRELShort-term value: 560 mg/m³, 150 ppm<br/>Long-term value: 375 mg/m³, 100 ppmTLVLong-term value: 75 mg/m³, 20 ppm

BEI

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Trade name: Toluene / Isopropanol 75/25% v/v Solution

|             | (Contd. of page 4)  |
|-------------|---|
| CAS         | : 67-63-0 Isopropanol   |
| PEL         | Long-term value: 980 mg/m <sup>3</sup> , 400 ppm  |
| REL         | Short-term value: 1225 mg/m³, 500 ppm   |
|             | Long-term value: 980 mg/m <sup>3</sup> , 400 ppm  |
| TLV         | Short-term value: 984 mg/m³, 400 ppm  |
|             | Long-term value: 492 mg/m <sup>3</sup> , 200 ppm  |
|             | BEI   |
| Ingr        | edients with biological limit values:   |
| CAS         | : 108-88-3 Toluene  |
|             | 0.02 mg/L   |
|             | LD50 Intraperitoneal: blood   |
|             | Time: prior to last shift of workweek   |
|             | LD50: Toluene   |
|             | 0.02  |
|             | 0.03 mg/L<br>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         | : 67-63-0 Isopropanol   |
| BEI         | 40 mg/L   |
|             | LD50 Intraperitoneal: urine   |
|             | Time: end of shift at end of workweek   |
|             | LD50: Acetone (background, nonspecific)   |
| Addi        | itional information: The lists that were valid during the creation were used as basis.  |
| Expo        | osure controls  |
|             | onal protective equipment:  |
|             | eral protective and hygienic measures:  |
|             | p away 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 eyes and skin.   |
|             | thing equipment:  |
|             | use of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use iratory protective device that is independent of circulating air.                               |
|             | ection of hands:  |
| 1.00        |   |
| ſ           |   |
| -           |   |
| nin n       | Protective gloves   |
| entri-      | Protective gloves   |
| The         |   |
|             | glove material has to be impermeable and resistant to the product/ the substance/ the preparation.  |
| Due         | glove material has to be impermeable and resistant to the product/ the substance/ the preparation.<br>to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the |
| Due<br>chem | glove material has to be impermeable and resistant to the product/ the substance/ the preparation.  |

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#### Trade name: Toluene / Isopropanol 75/25% v/v Solution

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· 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

| Information on basic physical and o | chemical properties   |
|-------------------------------------|---|
| · General Information               |   |
| · Appearance:                       |   |
| Form:                               | Liquid  |
| Color:                              | Clear   |
| · Odor:                             | Characteristic  |
| Odor threshold:                     | Not determined.   |
| pH-value:                           | Not determined.   |
| Change in condition                 |   |
| Melting point/Melting range:        | Undetermined.   |
| <b>Boiling point/Boiling range:</b> | 82 °C (180 °F)  |
| Flash point:                        | 4 °C (39 °F)  |
| Flammability (solid, gaseous):      | Not applicable.   |
| Ignition temperature:               | 425 °C (797 °F)   |
| Decomposition temperature:          | Not determined.   |
| Auto igniting:                      | Product is not selfigniting.  |
| Danger of explosion:                | Product is not explosive. However, formation of explosive air/vapor<br>mixtures are possible. |
| Explosion limits:                   |   |
| Lower:                              | 1.2 Vol %   |
| Upper:                              | 12.0 Vol %  |
| · Vapor pressure at 20 °C (68 °F):  | 43 hPa (32 mm Hg)   |
| Density at 20 °C (68 °F):           | 0.89637 g/cm³ (7.48 lbs/gal)  |
| · Relative density                  | Not determined.   |
| · Vapor density                     | Not determined.   |
| • Evaporation rate                  | Not determined.   |
| Solubility in / Miscibility with    |   |
| Water:                              | Fully miscible.   |

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Trade name: Toluene / Isopropanol 75/25% v/v Solution

|                                   |  | (Contd. of page |
|-----------------------------------|--|-----------------|
| · Partition coefficient (n-octand | ol/water): Not determined.                 |                 |
| · Viscosity:                      |  |                 |
| Dynamic:                          | Not determined.                            |                 |
| Kinematic:                        | Not determined.                            |                 |
| · Solvent content:                |  |                 |
| Organic solvents:                 | 100.0 %                                    |                 |
| VOC content:                      | 100.0 %                                    |                 |
|                                   | 896.4 g/l / 7.48 lb/gl                     |                 |
| • 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.
- $\cdot$  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)

 Oral
 LD50
 6402 mg/kg (rat)

 Inhalative
 LC50/4 h
 137 mg/l (rat)

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

| Oral       | LD50     | 5000 mg/kg (rat)     |
|------------|----------|----------------------|
| Dermal     | LD50     | 12124 mg/kg (rabbit) |
| Inhalative | LC50/4 h | 5320 mg/l (mouse)    |

• Primary irritant effect:

• on the skin: Irritant to skin and mucous membranes.

• 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 (Internat | tional Agency for Research on Cancer) |                    |
|------------------|---------------------------------------|--------------------|
| CAS: 108-88-3    | Toluene                               | 3                  |
| CAS: 67-63-0     | Isopropanol                           | 3                  |
|                  |                                       | (Contd. on page 8) |
|                  |                                       |                    |

<sup>·</sup> on the eye: Irritating effect.

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### · 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.
- 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.
- · Recommended cleansing agent: Water, if necessary with cleansing agents.

| UN-Number                         |  |
|-----------------------------------|--|
| DOT, IMDG, IATA                   | UN1993   |
| UN proper shipping name           |  |
| DOT                               | Flammable liquids, n.o.s. (Toluene, Isopropanol) |
| IMDG, IATA                        | FLAMMABLE LIQUID, N.O.S. (TOLUENE, Isopropanol)  |
| Transport hazard class(es)<br>DOT |  |
| PAMMARE LODD                      |  |
| Class                             | 3 Flammable liquids                              |

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Trade name: Toluene / Isopropanol 75/25% v/v Solution

|                                      | (Contd. of page                                  |
|--------------------------------------|--|
| Label                                | 3  |
| IMDG, IATA                           |  |
|                                      |  |
|                                      |  |
| 3                                    |  |
| Class                                | 3 Flammable liquids                              |
| Label                                | 3  |
| Packing group                        |  |
| DOT, IMDG, IATA                      | II   |
| Environmental hazards:               |  |
| Marine pollutant:                    | No   |
| Special precautions for user         | Warning: Flammable liquids                       |
| Danger code (Kemler):                | 33   |
| EMS Number:                          | <i>F-E</i> , <u><i>S-E</i></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)              | 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. (TOLUENE       |
| -                                    | ISOPROPANOL), 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):
- All ingredients are listed.
- · TSCA (Toxic Substances Control Act):
- All ingredients are listed.
- · Proposition 65
- $\cdot$  Chemicals known to cause cancer:
- None of the ingredients is listed.

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# Safety Data Sheet acc. to OSHA HCS

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Trade name: Toluene / Isopropanol 75/25% v/v Solution

| $\cdot$ 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

 $\cdot$  EPA (Environmental Protection Agency)

CAS: 108-88-3 Toluene

· TLV (Threshold Limit Value established by ACGIH)

CAS: 108-88-3 Toluene

CAS: 67-63-0 Isopropanol

· 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 Isopropanol · Hazard statements Highly flammable liquid and vapor. Causes skin irritation. Causes serious eye 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.

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| (Contd. of page 10)  |
|--|
| 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 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.            |
| · 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 10-05-2017: review SDS for accuracy. STN Creation date for SDS 01-07-2015. STN 10/05/2017 / -· 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 Skin Irrit. 2: Skin corrosion/irritation – Category 2 Eye Irrit. 2A: Serious eye damage/eye irritation - Category 2A 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