Printing date 10/27/2017

Reviewed on 10/27/2017

1 Identification

- · Product identifier
- Trade name: <u>Reagent 35 Total Hydrolyzable</u> Chloride Reactant (Blue Solution)
- · Article number: DC558-277
- 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 | n of the substance or mixture |
|------------------|---|
| GI GI | HS02 Flame |
| Flam. Liq. 2 | H225 Highly flammable liquid and vapor. |
| GI | HS06 Skull and crossbones |
| Acute Tox. 3 | H331 Toxic if inhaled. |
| GI | HS08 Health hazard |
| Repr. 2 | H361 Suspected of damaging fertility or the unborn child. |
| STOT SE 1 | H370 Causes damage to organs. |
| STOT RE 2 | H373 May cause damage to organs through prolonged or repeated exposure. |
| Asp. Tox. 1 | H304 May be fatal if swallowed and enters airways. |
| GI CI | HS05 Corrosion |
| Skin Corr. 11 | 3 H314 Causes severe skin burns and eye damage. |
| Eye Dam. 1 | H318 Causes serious eye damage. |
| GI | HS07 |
| STOT SE 3 | H336 May cause drowsiness or dizziness. (Contd. on page 2) |



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| nde name: Reagent 35 Total Hydrolyzable Chloride Reactant (Blue Solution) | |
|--|-------------------------------------|
| | (Contd. of pag |
| · Label elements | |
| • GHS label elements The product is classified and labeled according to the Globally Harn | nonized System (GHS) |
| · Hazard pictograms | |
| | |
| | |
| | |
| \vee \vee \vee \vee \vee | |
| GHS02 GHS05 GHS06 GHS08 GHS07 | |
| · Signal word Danger | |
| | |
| · Hazard-determining components of labeling: | |
| Methanol (Methyl Alcohol) Toluene | |
| Pyrrolidine | |
| · Hazard statements | |
| Highly flammable liquid and vapor. | |
| Toxic if inhaled. | |
| Causes severe skin burns and eye damage. | |
| Suspected of damaging fertility or the unborn child. | |
| Causes damage to organs. | |
| 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 dusts or mists. | |
| 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 swallowed: Rinse mouth. 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 in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if | present and easy to a |
| Continue rinsing. | |
| IF exposed or concerned: Get medical advice/attention. | |
| Get medical advice/attention if you feel unwell. | |
| Specific treatment (see on this label). | |
| Wash contaminated clothing 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. | aulationa |
| Dispose of contents/container in accordance with local/regional/national/international reg | <i>gulations.</i> (Contd. on pag |

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(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 com | ponents: | |
|------------------|---------------------------|---------|
| CAS: 67-56-1 | Methanol (Methyl Alcohol) | 63.571% |
| CAS: 108-88-3 | Toluene | 29.836% |
| CAS: 123-75-1 | Pyrrolidine | 6.591% |
| · Table of Nonha | zardous Ingredients | |
| | Bromophenol Blue | 0.0012% |
| CAS: 7447-41-8 | Lithium Chloride | 0.0007% |

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.

Remove breathing apparatus only after contaminated clothing have been completely removed.

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

· After inhalation:

Supply fresh air or oxygen; call for doctor.

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. Then consult a doctor.
- After swallowing: Drink copious amounts of water and provide fresh air. Immediately call a doctor.

• Information for doctor:

• Most important symptoms and effects, both acute and delayed No further relevant information available.

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• *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). Use neutralizing agent.

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

| CAS: 67-56-1 Methanol (Methyl Alcohol) | 530 ppm |
|--|-----------------------|
| CAS: 108-88-3 Toluene | 67 ppm |
| CAS: 123-75-1 Pyrrolidine | 0.69 mg/m |
| CAS: 115-39-9 Bromophenol Blue | 30 mg/m ³ |
| CAS: 7447-41-8 Lithium Chloride | 2.3 mg/m ³ |
| PAC-2: | |
| CAS: 67-56-1 Methanol (Methyl Alcohol) | 2,100 ppm |
| CAS: 108-88-3 Toluene | 560 ppm |
| CAS: 123-75-1 Pyrrolidine | 7.6 mg/m ³ |
| CAS: 115-39-9 Bromophenol Blue | 330 mg/m |
| CAS: 7447-41-8 Lithium Chloride | 25 mg/m ³ |
| PAC-3: | |
| CAS: 67-56-1 Methanol (Methyl Alcohol) | 7200* ppm |
| CAS: 108-88-3 Toluene | 3700* ppm |
| CAS: 123-75-1 Pyrrolidine | 45 mg/m ³ |
| CAS: 115-39-9 Bromophenol Blue | 2,000 mg/m |

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CAS: 7447-41-8 Lithium Chloride

(Contd. of page 4) $150 mg/m^3$

7 Handling and storage

· Handling:

- **Precautions for safe handling** Ensure good ventilation/exhaustion at the workplace. Open and handle receptacle with care.
- Information about protection against explosions and fires: Keep ignition sources away - Do not smoke. Protect against electrostatic charges. Keep respiratory protective device available.
- · 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:

The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit.

At this time, the remaining constituent has no known exposure limits.

| CAS: | 67-56-1 Methanol (Methyl Alcohol) |
|------|---|
| 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: 328 mg/m³, 250 ppm Long-term value: 262 mg/m³, 200 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/m ³ , 20 ppm BEI |
| | (Contd. on page 6) |

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| - | edients with biological limit values: | |
|------|---|--|
| | e 67-56-1 Methanol (Methyl Alcohol) | |
| | 15 mg/L | |
| | LD50 Intraperitoneal: urine | |
| | Time: end of shift | |
| | LD50: Methanol (background, nonspecific) | |
| CAS: | 2 108-88-3 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) | |
| | tional information: The lists that were valid during the creation were used as basis. | |
| Expo | sure controls | |
| | onal protective equipment: | |
| | ral 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. 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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(Contd. of page 6)

Safety Data Sheet acc. to OSHA HCS

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• Eye protection:



Tightly sealed goggles

· Body protection: Protective work clothing

| Information on basic physical and | chemical properties |
|--|--|
| · General Information | |
| · Appearance: | |
| Form: | Liquid |
| Color: | Blue |
| · Odor: | Organic |
| · Odor threshold: | Not determined. |
| · pH-value: | Not determined. |
| · Change in condition | |
| Melting point/Melting range: | Undetermined. |
| Boiling point/Boiling range: | 64 °C (147.2 °F) |
| · Flash point: | 3 °C (37.4 °F) |
| · Flammability (solid, gaseous): | Not applicable. |
| · Ignition temperature: | 320 °C (608 °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: | 1.2 Vol % |
| Upper: | 44 Vol % |
| · Vapor pressure at 20 °C (68 °F): | 128 hPa (96 mm Hg) |
| • Density at 20 °C (68 °F): | 0.81926 g/cm ³ (6.83672 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/wat | er): Not determined. |
| · Viscosity: | |
| Dynamic: | Not determined. |
| Kinematic: | Not determined. |

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| Trade name: Reagent 35 Total Hydrolyzable |
|---|
| Chloride Reactant (Blue Solution) |

| | | (Contd. of page |
|---|---|-----------------|
| • Solvent content: Organic solvents: VOC content: | 100.0 % 100.00 % 819.2 g/l / 6.84 lb/gl | |
| Solids content: • Other information | 0.0 % 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:

ATE (Acute Toxicity Estimate)

 Oral
 LD50
 4,719 mg/kg (rat)

 Inhalative
 LC50/4 h
 4.6 mg/l

Inhalative LC30/4 h 4.6 mg/l

CAS: 67-56-1 Methanol (Methyl Alcohol)

Oral LD50 5,628 mg/kg (rat)

Dermal LD50 15,800 mg/kg (rabbit)

Inhalative LC50/4 h 3 mg/l (ATE)

CAS: 108-88-3 Toluene

| Oral | LD50 | 5,000 mg/kg (rat) |
|------------|----------|-----------------------|
| Dermal | LD50 | 12,124 mg/kg (rabbit) |
| Inhalative | LC50/4 h | 5,320 mg/l (mouse) |

CAS: 123-75-1 Pyrrolidine

 Oral
 LD50
 433 mg/kg (rat)

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

· Primary irritant effect:

• on the skin: Caustic effect on skin and mucous membranes.

• on the eye:

Strong caustic effect.

Strong irritant with the danger of severe eye injury.

• Sensitization: No sensitizing effects known.

 \cdot Additional toxicological information:

The product shows the following dangers according to internally approved calculation methods for preparations: Toxic

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Trade name: Reagent 35 Total Hydrolyzable Chloride Reactant (Blue Solution)

Corrosive

Irritant

Swallowing will lead to a strong caustic effect on mouth and throat and to the danger of perforation of esophagus and stomach.

· Carcinogenic categories

· IARC (International Agency for Research on Cancer)

CAS: 108-88-3 Toluene

· 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. Must not reach bodies of water or drainage ditch undiluted or unneutralized. Danger to drinking water if even small quantities leak into the ground.

Danger to arinking water if even small quantities leak Describes of **DDT** and why **D**

- 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 | |
| $\cdot DOT$ | Flammable liquids, n.o.s. (Methanol, Pyrrolidine, Toluene) |

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| · IMDG, IATA | FLAMMABLE LIQUID, N.O.S. (METHANOL, PYRROLIDIN TOLUENE) |
|--|---|
| · Transport hazard class(es) | 10202.2) |
| ·DOT | |
| P.AMMAILE LOUD | |
| · Class | 3 Flammable liquids |
| · Label | 3 |
| · IMDG, IATA | |
| | |
| · Class | 3 Flammable liquids |
| · Label | 3 |
| · Packing group · DOT, IMDG, IATA | 11 |
| · Environmental hazards: · Marine pollutant: | No |
| \cdot Special precautions for user | Warning: Flammable liquids |
| · Danger code (Kemler): | 30 |
| · EMS Number: | F-E, <u>S-E</u> |
| Segregation groups Stowage Category | Alkalis B |
| | |
| • Transport in bulk according to Annex I MARPOL73/78 and the IBC Code | I of Not applicable. |
| · Transport/Additional information: | |
| | |
| • DOT • Quantity limitations | On passenger aircraft/rail: 1 L |
| Zuanny unnanions | On cargo aircraft only: 5 L |
| IMDC | |
| · IMDG · Limited quantities (LQ) | 1L |
| • Excepted quantities (EQ) | TL Code: E2 |
| · Exceptea quantities (EQ) | Maximum net quantity per inner packaging: 30 ml |
| | Maximum net quantity per outer packaging: 50 ml Maximum net quantity per outer packaging: 500 ml |
| · UN "Model Regulation": | UN 1993 FLAMMABLE LIQUIDS, N.O.S. (METHANO PYRROLIDINE, TOLUENE), 3, II |

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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):

CAS: 67-56-1 Methanol (Methyl Alcohol)

CAS: 108-88-3 Toluene

· TSCA (Toxic Substances Control Act):

Methanol (Methyl Alcohol)

Toluene

Pyrrolidine

Bromophenol Blue

Lithium Chloride

· TSCA new (21st Century Act) (Substances not listed)

· Proposition 65

· Chemicals known to cause cancer:

None of the ingredients is listed.

· 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: 67-56-1 Methanol (Methyl Alcohol)

CAS: 108-88-3 Toluene

· Carcinogenic categories

· EPA (Environmental Protection Agency)

CAS: 108-88-3 Toluene

· TLV (Threshold Limit Value established by ACGIH)

CAS: 108-88-3 Toluene

· 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: Methanol (Methyl Alcohol) II

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| | (Contd. of page 11) |
|--|---------------------|
| Toluene | |
| Pyrrolidine | |
| · Hazard statements | |
| Highly flammable liquid and vapor. | |
| Toxic if inhaled. | |
| Causes severe skin burns and eye damage. | |
| Suspected of damaging fertility or the unborn child. | |
| Causes damage to organs. | |
| 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 dusts or mists. | |
| 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 swallowed: Rinse mouth. Do NOT induce vomiting. | |
| If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/show | ver. |
| 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 press | ent and easy to do. |
| Continue rinsing. | |
| IF exposed or concerned: Get medical advice/attention. | |
| Get medical advice/attention if you feel unwell. | |
| Specific treatment (see on this label). | |
| Wash contaminated clothing 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 regulat | ions. |
| · 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
- 10-27-2017: review SDS for accuracy. STN Creation date for SDS 12-09-2014. STN 10/27/2017 / -

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| (Con | ttd. of page 12) |
|---|------------------|
| • 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 Corr. 1B: Skin corrosion/irritation – Category 1B | |
| Eye Dam. 1: Serious eye damage/eye irritation – Category 1 | |
| Repr. 2: Reproductive toxicity – Category 2 | |
| STOT SE 1: Specific target organ toxicity (single exposure) – Category 1 | |
| STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2 | |
| Asp. Tox. 1: Aspiration hazard – Category 1 | |
| | US |