Printing date 06/04/2024

*

Reviewed on 06/04/2024

Identification		
Product identifier		
Trade name: <u>Titration</u>	Cell Electrolyte rine and AOX)	
Article number: ND567	<u>.</u>	
Details of the supplier of		
Manufacturer/Supplier.		
Aqua Solutions, Inc. 6913 Highway 225		SOLUTIONS
DEER PARK, TX 77536	5	
USA 800-256-2586		
Information departmen	at:	
Technical Coordinator		
Sherman Nelson sherma Emergency telephone n		
Chemtrec: 800-424-930	00	
Canutec: 613-996-6666	,	
Hazard(s) identifica	ıtion	
Classification of the sul	bstance or mixture	
GHS02 Flam	e	
Flammable Liquide 2	H226 Elammable liquid and wapon	
	H226 Flammable liquid and vapor.	
GHS05 Corrd	osion	
	, see the second s	
Skin Corrosion 1B	H314 Causes severe skin burns and eye	e damage.
Eye Damage 1	H318 Causes serious eye damage.	
GHS07		
GHS07		
GHS07 Acute Toxicity - Dermal	4 H312 Harmful in contact with skin.	tion
GHS07 Acute Toxicity - Dermal Sensitization - Skin 1	4 H312 Harmful in contact with skin. H317 May cause an allergic skin react	tion.
GHS07 Acute Toxicity - Dermal Sensitization - Skin 1 Label elements	H317 May cause an allergic skin react	tion.
GHS07 Acute Toxicity - Dermal Sensitization - Skin 1 Label elements	H317 May cause an allergic skin react	
<i>GHS07</i> <i>Acute Toxicity - Dermal</i> <i>Sensitization - Skin 1</i> <i>Label elements</i> <i>GHS label elements</i> The	H317 May cause an allergic skin react	
<i>GHS07</i> <i>Acute Toxicity - Dermal</i> <i>Sensitization - Skin 1</i> <i>Label elements</i> <i>GHS label elements</i> The	H317 May cause an allergic skin react	
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GHS07 Acute Toxicity - Dermal Sensitization - Skin 1 Label elements GHS label elements The Hazard pictograms GHS02 GHS05 G	H317 May cause an allergic skin react	
GHS07 Acute Toxicity - Dermal Sensitization - Skin 1 Label elements GHS label elements The Hazard pictograms GHS02 GHS05 G Signal word Danger	H317 May cause an allergic skin react e product is classified and labeled accordi	
GHS07 Acute Toxicity - Dermal Sensitization - Skin 1 Label elements GHS label elements The Hazard pictograms GHS02 GHS05 G	H317 May cause an allergic skin react e product is classified and labeled accordi	

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Trade name: Titration Cell Electrolyte (for Chlorine and AOX)

(Contd. of page 1)
· Hazard statements
Flammable liquid and vapor.
Harmful in contact with skin.
Causes severe skin burns and eye damage.
May cause an allergic skin reaction.
· Precautionary statements
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 dusts or mists.
Wash thoroughly after handling.
Contaminated work clothing must not be allowed out of the workplace.
Wear protective gloves/protective clothing/eye protection/face protection.
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 do.
Continue rinsing.
Immediately call a poison center/doctor.
Specific treatment (see on this label).
Take off contaminated clothing and wash it before reuse.
If skin irritation or rash occurs: Get medical advice/attention.
Wash contaminated clothing before reuse.
In case of fire: Use CO2, powder or water spray to extinguish.
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 = 3
Fire = 2
3 0 Reactivity = 0
· HMIS-ratings (scale 0 - 4)
$\frac{\text{HEALTH}}{3} Health = 3$
FIRE 2 $Fire = 2$
REACTIVITY O Reactivity = 0
• Other hazards
• Results of PBT and vPvB assessment
• PBT: Not applicable.
• vPvB: Not applicable.
3 Composition/information on ingredients

· Chemical characterization: Mixtures

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• Description: Mixture of the substances listed below with nonhazardous additions.

(Contd. on page 3)

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Trade name: Titration Cell Electrolyte (for Chlorine and AOX)

		(Contd. of page 2)
• Dangerous com	ponents:	
CAS: 64-19-7 A	cetic Acid, Glacial	85.471%
, v	ardous Ingredients	
CAS: 7732-18-5	Water	14.324%
CAS: 127-09-3	Sodium Acetate Anhydrous	0.129%
CAS: 9000-70-8	Gelatin, Laboratory Grade	0.076%

4 First-aid measures

· Description of first aid measures

· General information:

Immediately remove any clothing soiled by the product.

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

• After inhalation:

Supply fresh air and to be sure call for a 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.
- *Indication of any immediate medical attention and special treatment needed No further relevant information available.*

5 Fire-fighting measures

- · Extinguishing media
- \cdot 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

During heating or in case of fire poisonous gases are produced.

- · Advice for firefighters
- · Protective equipment: Mouth respiratory protective device.

6 Accidental release measures

· Personal precautions, protective equipment and emergency procedures	
Mount respiratory protective device.	
Wear protective equipment. Keep unprotected persons away.	
• Environmental precautions:	
Do not allow product to reach sewage system or any water course.	
Inform respective authorities in case of seepage into water course or sewage system.	
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).	
Use neutralizing agent.	
Dispose contaminated material as waste according to section 13.	
	(Contd. on page 4)

(Contd. of page 3)

Safety Data Sheet acc. to OSHA HCS

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Trade name: Titration Cell Electrolyte (for Chlorine and AOX)

E	Insure adequate ventilation.
· k	eference to other sections
S	ee Section 7 for information on safe handling.
S	ee Section 8 for information on personal protection equipment.

See Section 3 for disposal information.

• Protective Action Criteria for Chemicals

· PAC-1:		
CAS: 64-19-7	Acetic Acid, Glacial	5 ppm
CAS: 127-09-3	Sodium Acetate Anhydrous	11 mg/m ³
· PAC-2:		
CAS: 64-19-7	Acetic Acid, Glacial	35 ppm
CAS: 127-09-3	Sodium Acetate Anhydrous	120 mg/m ³
· PAC-3:		
CAS: 64-19-7	Acetic Acid, Glacial	250 ppm
CAS: 127-09-3	Sodium Acetate Anhydrous	700 mg/m ³

7 Handling and storage

· Handling:

Precautions for safe handling Ensure good ventilation/exhaustion at the workplace. Prevent formation of aerosols.
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: No special requirements.
- · Information about storage in one common storage facility: Not required.
- · Further information about storage conditions: Keep receptacle tightly sealed.

• Specific end use(s) No further relevant information available.

8 Exposure controls/personal protection

· Additional information about design of technical systems: No further data; see section 7.

· Control parameters

· Components with limit values that require monitoring at the workplace:

CAS: 64-19-7 Acetic Acid, Glacial

PEL Long-term value: 25 mg/m³, 10 ppm

REL Short-term value: 37 mg/m³, 15 ppm

Long-term value: 25 mg/m³, 10 ppm

TLV Short-term value: 15 ppm Long-term value: 10 ppm

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

(Contd. on page 5)

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Trade name: Titration Cell Electrolyte (for Chlorine and AOX)

(Contd. of page 4)

- · 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. 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 \cdot *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 General Information 	chemical properties	
· Appearance:	.	
Form:	Liquid	
Color:	Clear	
· Odor:	Strong Vinegar	
· Odor threshold:	Not determined.	
· pH-value:	Not determined.	
· Change in condition		
Melting point/Melting range:	Undetermined.	
Boiling point/Boiling range:	100 °C (212 °F)	
· Flash point:	40 °C (104 °F)	

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Trade name:	Titration Cell Electrolyte
	(for Chlorine and AOX)

	(Contd. of page 5
Flammability (solid, gaseous):	Flammable.
Auto igniting:	485 °C (905 °F)
Decomposition temperature:	Not determined.
Ignition temperature:	Product is not selfigniting.
Danger of explosion:	Product is not explosive. However, formation of explosive air/vapo mixtures are possible.
Explosion limits:	
Lower:	4 Vol %
Upper:	17 Vol %
Vapor pressure at 20 °C (68 °F):	23 hPa (17.3 mm Hg)
Density at 20 °C (68 °F):	1.0449 g/cm ³ (8.71969 lbs/gal)
Relative density	Not determined.
Vapor density	Not determined.
Evaporation rate	Not determined.
Solubility in / Miscibility with	
Water:	Fully miscible.
Partition coefficient (n-octanol/wate	r): Not determined.
Viscosity:	
Dynamic:	Not determined.
Kinematic:	Not determined.
Solvent content:	
Organic solvents:	85.5 %
Water:	14.3 %
VOC content:	85.47 %
	893.1 g/l / 7.45 lb/gal
Solids content:	0.2 %
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.

(Contd. on page 7)

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Trade name: Titration Cell Electrolyte (for Chlorine and AOX)

(Contd. of page 6)

 Acute toxicity: LD/LC50 values that are relevant for classification: ATE (Acute Toxicity Estimate) Dermal LD50 1,240 mg/kg (rabbit) Primary irritant effect: on the skin: Caustic effect on skin and mucous membranes. on the eye: Strong caustic effect. Strong critiant with the danger of severe eye injury. Sensitization: Sensitization possible through skin contact. Additional toxicological information: The product shows the following dangers according to internally approved calculation methods for preparation Harmful Corrosive Irritant Swallowing will lead to a strong caustic effect on mouth and throat and to the danger of perforation of esopha, and stomach. Carcinogenic categories IARC (International Agency for Research on Cancer) None of the ingredients is listed. OSHA-Ca (Occupational Safety & Health Administration) 	•	rmation on toxicological effects
ATE (Acute Toxicity Estimate) Dermal LD50 1,240 mg/kg (rabbit) • 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: Sensitization possible through skin contact. • Additional toxicological information: The product shows the following dangers according to internally approved calculation methods for preparation Harmful Corrosive Irritant Swallowing will lead to a strong caustic effect on mouth and throat and to the danger of perforation of esopha, and stomach. • Carcinogenic categories • IARC (International Agency for Research on Cancer) None of the ingredients is listed.	· Acut	e toxicity:
Dermal LD50 1,240 mg/kg (rabbit) • Primary irritant effect: • • on the skin: Caustic effect on skin and mucous membranes. • • on the eye: Strong caustic effect. Strong caustic effect. Strong irritant with the danger of severe eye injury. • Sensitization: Sensitization possible through skin contact. • • Additional toxicological information: • The product shows the following dangers according to internally approved calculation methods for preparation Harmful • Corrosive • Irritant Swallowing will lead to a strong caustic effect on mouth and throat and to the danger of perforation of esopha, and stomach. • Carcinogenic categories • • IARC (International Agency for Research on Cancer) None of the ingredients is listed. • NTP (National Toxicology Program) None of the ingredients is listed.	· LD/L	C50 values that are relevant for classification:
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Harmful Corrosive Irritant Swallowing will lead to a strong caustic effect on mouth and throat and to the danger of perforation of esopha, and stomach. • Carcinogenic categories • IARC (International Agency for Research on Cancer) None of the ingredients is listed. • NTP (National Toxicology Program) None of the ingredients is listed.		
Corrosive Irritant Swallowing will lead to a strong caustic effect on mouth and throat and to the danger of perforation of esopha, and stomach. • Carcinogenic categories • IARC (International Agency for Research on Cancer) None of the ingredients is listed. • NTP (National Toxicology Program) None of the ingredients is listed.		
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Swallowing will lead to a strong caustic effect on mouth and throat and to the danger of perforation of esopha, and stomach. • Carcinogenic categories • IARC (International Agency for Research on Cancer) None of the ingredients is listed. • NTP (National Toxicology Program) None of the ingredients is listed.	Corr	osive
and stomach. Carcinogenic categories IARC (International Agency for Research on Cancer) None of the ingredients is listed. NTP (National Toxicology Program) None of the ingredients is listed.		
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None of the ingredients is listed. NTP (National Toxicology Program) None of the ingredients is listed.	· Carc	inogenic categories
NTP (National Toxicology Program) None of the ingredients is listed.	· IAR(C (International Agency for Research on Cancer)
None of the ingredients is listed.	None	e of the ingredients is listed.
	· NTP	(National Toxicology Program)
OSHA-Ca (Occupational Safety & Health Administration)	None	e of the ingredients is listed.
	· OSH	A-Ca (Occupational Safety & Health Administration)

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 1 (Self-assessment): slightly hazardous for water

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system. Must not reach bodies of water or drainage ditch undiluted or unneutralized.

- · Results of PBT and vPvB assessment
- · **PBT:** Not applicable.
- · vPvB: Not applicable.
- · Other adverse effects No further relevant information available.

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Trade name: Titration Cell Electrolyte (for Chlorine and AOX)

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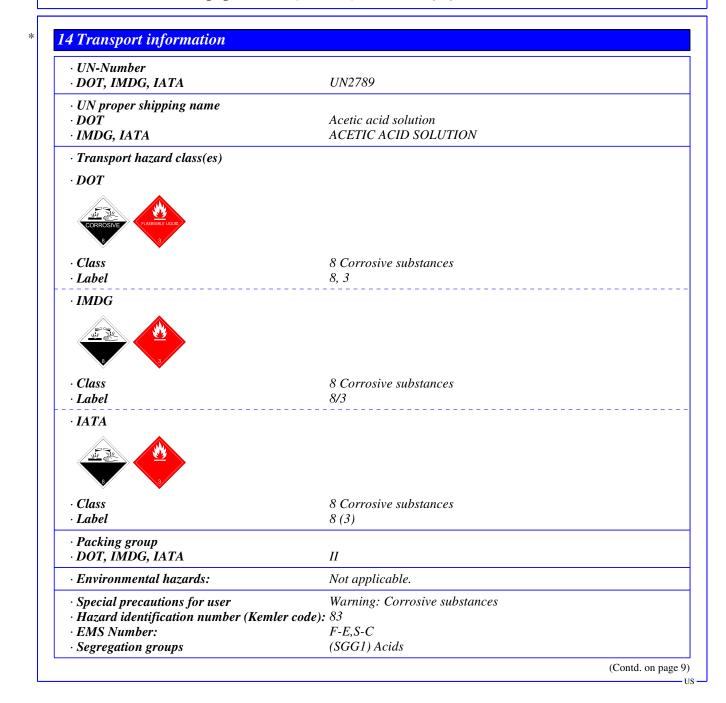
13 Disposal considerations

· 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.



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Stowage Category	Α
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: 1 L
~ `	On cargo aircraft only: 30 L
IMDG	
Limited quantities (LQ)	1L
Excepted quantities $(\widetilde{E}Q)$	Code: E2
	Maximum net quantity per inner packaging: 30 ml
	Maximum net quantity per outer packaging: 500 ml
UN ''Model Regulation'':	UN 2789 ACETIC ACID SOLUTION, 8 (3), II

15 Regulatory information

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

· Sara	
• Section 355 (extremely hazardous substances):	
None of the ingredients is listed.	
· Section 313 (Specific toxic chemical listings):	
None of the ingredients is listed.	
· TSCA (Toxic Substances Control Act):	
Acetic Acid, Glacial	ACTIVE
Water	ACTIVE
Sodium Acetate Anhydrous	ACTIVE
Gelatin, Laboratory Grade	ACTIVE
· Hazardous Air Pollutants	
None of the ingredients is 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:	
None of the ingredients is listed.	
· Carcinogenic categories	
· EPA (Environmental Protection Agency)	
None of the ingredients is listed.	
	(Contd. on page 1

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• *TLV* (*Threshold Limit Value*) None of the ingredients is listed.

· NIOSH-Ca (National Institute for Occupational Safety and Health)

(Contd. of page 9)

	(unonur mismure jor occupational Sujety and mount)
None of the ir	ngredients is listed.
GHS label el	ements The product is classified and labeled according to the Globally Harmonized System (GHS).
Hazard picto	grams
~	\wedge \wedge
Jule /	
<u><u><u></u>(<u></u>)</u></u>	
GHS02 G	HS05 GHS07
Signal word	Danger
Hazard-deter	mining components of labeling:
Acetic Acid, (
Hazard stater	
	quid and vapor.
	ontact with skin.
	e skin burns and eye damage.
	allergic skin reaction.
Precautionar	
	om heat/sparks/open flames/hot surfaces No smoking.
	er tightly closed.
	container and receiving equipment.
	n-proof electrical/ventilating/lighting/equipment.
	-sparking tools.
-	ionary measures against static discharge.
	he dusts or mists.
	ghly after handling.
	d work clothing must not be allowed out of the workplace.
	ive gloves/protective clothing/eye protection/face protection.
	Rinse mouth. Do NOT induce vomiting.
	hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
	: Remove person to fresh air and keep comfortable for breathing.
	inse cautiously with water for several minutes. Remove contact lenses, if present and easy to
Continue rins	
	call a poison center/doctor.
	ment (see on this label).
	aminated clothing and wash it before reuse.
v	on or rash occurs: Get medical advice/attention.
	inated clothing before reuse.
	e: Use CO2, powder or water spray to extinguish.
	ll-ventilated place. Keep cool.
Store locked	
	ntents/container in accordance with local/regional/national/international regulations.
I nomical cat	any assassments of a homical Vataty Assassment has not been carried out

· Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

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Sensitization - Skin 1: Skin sensitisation – Category 1 • * Data compared to the previous version altered. (Contd. of page 10)

16 Other information This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship. · Department issuing SDS: Environment protection department. · Contact: Date of Preparation / Last Revision: · Date of preparation / last revision Revision 1.2, 06/04/2024: Reviewed SDS for accuracy. MH/STN Revision 0.0, 05-29-2024: Creation date for SDS. STN 06/04/2024 · Abbreviations and acronyms: IMDG: International Maritime Code for Dangerous Goods DOT: US Department of Transportation IATA: International Air Transport Association EINECS: European Inventory of Existing Commercial Chemical Substances ELINCS: European List of Notified Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) NFPA: National Fire Protection Association (USA) HMIS: Hazardous Materials Identification System (USA) VOC: Volatile Organic Compounds (USA, EU) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic 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 Flammable Liquids 3: Flammable liquids – Category 3 Acute Toxicity - Dermal 4: Acute toxicity - Category 4 Skin Corrosion 1B: Skin corrosion/irritation - Category 1B Eye Damage 1: Serious eye damage/eye irritation - Category 1