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*

Identification	
Product identifier Trade name: <u>Bromine Number Titration</u> <u>Solvent ASTM D1159, D2710</u> Article number: 1368 Restrictions This chemical/product is not and cannot be dist processed (as defined in TSCA section 3(13)) for con-	
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	SOLUTIONS
Information department: Technical Coordinator Sherman Nelson shermann@aquasolutions.org Emergency telephone number: Chemtrec: 800-424-9300 Canutec: 613-996-6666	
Hazard(s) identification	
Classification of the substance or mixture GHS02 Flame	H225 Highly flammable liquid and vapor.
Classification of the substance or mixture GHS02 Flame	H225 Highly flammable liquid and vapor.
Classification of the substance or mixture GHS02 Flame Flammable Liquids 2 GHS06 Skull and crossbones	H225 Highly flammable liquid and vapor. H311 Toxic in contact with skin.
Classification of the substance or mixture GHS02 Flame Flammable Liquids 2 GHS06 Skull and crossbones	
Classification of the substance or mixture GHS02 Flame Flammable Liquids 2 GHS06 Skull and crossbones Acute Toxicity - Dermal 3	
Classification of the substance or mixture GHS02 Flame Flammable Liquids 2 GHS06 Skull and crossbones Acute Toxicity - Dermal 3 GHS08 Health hazard Carcinogenicity 1A	H311 Toxic in contact with skin. H350 May cause cancer.
Classification of the substance or mixture GHS02 Flame Flammable Liquids 2 GHS06 Skull and crossbones Acute Toxicity - Dermal 3 GHS08 Health hazard Carcinogenicity 1A	H311 Toxic in contact with skin. H350 May cause cancer. H370 Causes damage to the central nervous system and th
Classification of the substance or mixture GHS02 Flame Flammable Liquids 2 GHS06 Skull and crossbones Acute Toxicity - Dermal 3 GHS08 Health hazard Carcinogenicity 1A Specific Target Organ Toxicity - Single Exposure 1	H311 Toxic in contact with skin. H350 May cause cancer. H370 Causes damage to the central nervous system and th
Classification of the substance or mixture GHS02 Flame Flammable Liquids 2 GHS06 Skull and crossbones Acute Toxicity - Dermal 3 GHS08 Health hazard Carcinogenicity 1A Specific Target Organ Toxicity - Single Exposure 1 GHS05 Corrosion	H311 Toxic in contact with skin. H350 May cause cancer. H370 Causes damage to the central nervous system and th visual organs.
Classification of the substance or mixture GHS02 Flame Flammable Liquids 2 GHS06 Skull and crossbones Acute Toxicity - Dermal 3 GHS08 Health hazard Carcinogenicity 1A Specific Target Organ Toxicity - Single Exposure 1 GHS05 Corrosion Skin Corrosion 1B	H311 Toxic in contact with skin. H350 May cause cancer. H370 Causes damage to the central nervous system and th visual organs. H314 Causes severe skin burns and eye damage.

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Safety Data Sheet acc. to OSHA HCS

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Acute Toxicity - Oral 4

Sensitization - Skin 1

· Label elements

GHS02

Methanol

· Hazard pictograms

· Signal word Danger

Acetic Acid, Glacial

Sulfuric Acid 96 - 98% · Hazard statements

Harmful if swallowed.

May cause cancer.

GHS05

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Trade name:	Bromine Number Titration
	Solvent ASTM D1159, D2710

H302 Harmful if swallowed. H317 May cause an allergic skin reaction. • GHS label elements The product is classified and labeled according to the Globally Harmonized System (GHS). GHS06 GHS07 GHS08 · Hazard-determining components of labeling: Dichloromethane (Methylene Chloride) Highly flammable liquid and vapor. Toxic in contact with skin. Causes severe skin burns and eye damage. May cause an allergic skin reaction. Causes damage to the central nervous system and the visual organs. · Precautionary statements Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. *Keep away from heat/sparks/open flames/hot surfaces. - No smoking.* Keep container tightly closed. Ground/bond container and receiving equipment. *Use explosion-proof electrical/ventilating/lighting/equipment.* Use only non-sparking tools. Take precautionary measures against static discharge. Do not breathe dusts or mists. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Contaminated work clothing must not be allowed out of the workplace. Wear protective gloves/protective clothing/eye protection/face protection. If swallowed: Call a poison center/doctor if you feel unwell.

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.

IF exposed or concerned: Get medical advice/attention.

Specific treatment (see on this label).

Take off immediately all contaminated clothing and wash it before reuse.

If skin irritation or rash occurs: Get medical advice/attention.

In case of fire: Use CO2, powder or water spray to extinguish.

Store in a well-ventilated place. Keep cool.

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(Contd. of page 2)

Store locked up	
	ents/container in accordance with local/regional/national/international regulations.
· Classification s	
$\cdot NFPA$ ratings	scale 0 - 4)
	Health = 3
	Fire = 3
	Reactivity = 0
· HMIS-ratings	(scale 0 - 4)
HEALTH 3	Health = 3
	Fire = 2
	Reactivity = 1
	Reactivity = 1
• Other hazards	
· Results of PBT	and vPvB assessment
• PBT: Not appli	

• *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:		
CAS: 64-19-7	Acetic Acid, Glacial	71.944%
CAS: 75-09-2	Dichloromethane (Methylene Chloride)	17.045%
CAS: 67-56-1	Methanol	10.185%
CAS: 7664-93-9	Sulfuric Acid 96 - 98%	0.826%

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:
- 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:
- Immediately call a doctor.

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
- 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.
- 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.

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: 64-19-7 Acetic A	Acid, Glacial	5 ppm
CAS: 75-09-2 Dichlor	omethane (Methylene Chloride)	200 ppm
CAS: 67-56-1 Methan	ol	530 ppm
CAS: 7664-93-9 Sulfuric	e Acid 96 - 98%	0.20 mg/m ³
· PAC-2:		
CAS: 64-19-7 Acetic A	Acid, Glacial	35 ppm
CAS: 75-09-2 Dichlor	omethane (Methylene Chloride)	560 ppm
CAS: 67-56-1 Methan	ol	2,100 ppm
CAS: 7664-93-9 Sulfuric	e Acid 96 - 98%	8.7 mg/m ³
· PAC-3:		
CAS: 64-19-7 Acetic A	Acid, Glacial	250 ppm
CAS: 75-09-2 Dichlor	omethane (Methylene Chloride)	6,900 ppm
CAS: 67-56-1 Methan	ol	7200* ppm

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CAS: 7664-93-9 Sulfuric Acid 96 - 98%

 $\frac{\text{(Contd. of page 4)}}{160 \text{ mg/m}^3}$

7 Handling and storage

· Handling:

- **Precautions for safe handling** Ensure good ventilation/exhaustion at the workplace. Open and handle receptacle with care. 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: 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 section 7.

· Control parameters

· Com	ponents with limit values that require monitoring at the workplace:
CAS.	: 64-19-7 Acetic Acid, Glacial
PEL	Long-term value: 25 mg/m ³ , 10 ppm
REL	Short-term value: 37 mg/m ³ , 15 ppm
	Long-term value: 25 mg/m ³ , 10 ppm
TLV	Short-term value: 15 ppm
	Long-term value: 10 ppm
CAS.	: 75-09-2 Dichloromethane (Methylene Chloride)
PEL	Short-term value: 125 ppm
	Long-term value: 25 ppm see 29 CFR 1910.1052
DEI	
	See Pocket Guide App. A
TLV	Long-term value: 50 ppm
	BEI, A3
CAS.	: 67-56-1 Methanol
PEL	Long-term value: 260 mg/m ³ , 200 ppm
REL	Short-term value: 325 mg/m ³ , 250 ppm
	Long-term value: 260 mg/m ³ , 200 ppm
	Skin
	(Contd. on page 6)

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TLV	(Contd. of page 5) Short-term value: 250 ppm Long-term value: 200 ppm Skin; BEI
CAS	: 7664-93-9 Sulfuric Acid 96 - 98%
PEL	Long-term value: 1 mg/m ³
REL	Long-term value: 1 mg/m ³
TLV	Long-term value: 0.2* mg/m³ *as thoracic fraction, A2
·Ingr	edients with biological limit values:
CAS	: 75-09-2 Dichloromethane (Methylene Chloride)
BEI	0.3 mg/L LD50 Intraperitoneal: urine Time: end of shift LD50: Dichloromethane (semi-quantitative)
CAS	: 67-56-1 Methanol
	15 mg/L LD50 Intraperitoneal: urine Time: end of shift LD50: Methanol (background, nonspecific)
• Expo • Perso • Gena Keep Imma Wash Store Avoi Avoi • Brea In ca	itional information: The lists that were valid during the creation were used as basis. posure 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. d contact with the eyes. d contact with the eyes and skin. ething 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.

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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Trade name: Bromine Number Titration Solvent ASTM D1159, D2710

• Eye protection:



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Tightly sealed goggles

· Body protection: Protective work clothing

Information on basic physical and	chemical properties
General Information	I I
Appearance:	
Form:	Liquid
Color:	Colorless
Odor:	Vinegar
Odor threshold:	Not determined.
pH-value:	Not determined.
Change in condition	
Melting point/Melting range:	Undetermined.
Boiling point/Boiling range:	118 °C (244.4 °F)
Flash point:	11 °C (51.8 °F)
Flammability (solid, gaseous):	Highly flammable.
Auto igniting:	455 °C (851 °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:	44 Vol %
Vapor pressure at 20 °C (68 °F):	453 hPa (339.8 mm Hg)
Density at 20 °C (68 °F):	1.06597 g/cm³ (8.89552 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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	(Contd. of page	e 7)
• Solvent content: Organic solvents: VOC content:	99.2 % 82.13 % 875.5 g/l / 7.31 lb/gal	
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

· Information on toxicological effects

· Acute toxicity:

· LD/LC50 values that are relevant for classification:

ATE (Acute Toxicity Estimate)OralLD50982 mg/kgDermalLD50982 mg/kgInhalativeLC50/4h29.5 mg/l

• Primary irritant effect:

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

- \cdot 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 preparations: Toxic

Harmful

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: 75-09-2	Dichloromethane (Methylene Chloride)	2A
CAS: 7664-93-9	Sulfuric Acid 96 - 98%	1
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· NTP (National Toxicology Program)

CAS: 75-09-2 Dichloromethane (Methylene Chloride)

CAS: 7664-93-9 Sulfuric Acid 96 - 98%

· OSHA-Ca (Occupational Safety & Health Administration)

CAS: 75-09-2 Dichloromethane (Methylene Chloride)

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.

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

13 Disposal considerations

 \cdot 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	UN3286
· UN proper shipping name	
DOT	Flammable liquid, toxic, corrosive, n.o.s. (Methano
	Dichloromethane, Acetic Acid, Glacial
)
· IMDG, IATA	FLAMMABLE LIQUID, TOXIC, CORROSIVE, N.O.S. (Methano
<i>,</i>	Dichloromethane, Acetic Acid, Glacial
)

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Transport hazard class(es)		
DOT		
Class	3 Flammable liquids	
Label	3, 6.1, 8	
IMDG		
	2 Flaumahla liquida	
Class Label	3 Flammable liquids 3/6.1/8	
IATA		
Class	3 Flammable liquids	
Label	3 (6.1, 8)	
Packing group DOT, IMDG, IATA	II	
Environmental hazards: Marine pollutant:	No	
Special precautions for user Hazard identification number (Kemler code)	Warning: Flammable liquids : 3	
EMS Number:	F-E,S-C	
Stowage Category	B SW2 Characteristics and the	
Stowage Code Segregation Code	SW2 Clear of living quarters. SG5 Segregation as for class 3	
Segregation Coue	SGS Segregation as for class 5 SG8 Stow "away from" class 4.1	
Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	Not applicable.	
Transport/Additional information:		
IMDG Limited quantities (LQ) Excepted quantities (EQ)	1L Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml	
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· UN "Model Regulation":

UN 3286 FLAMMABLE LIQUID, TOXIC, CORROSIVE, N.O.S. (METHANOL, DICHLOROMETHANE, ACETIC ACID, GLACIAL), 3 (6.1+8), II

15 Regulatory information

 \cdot Safety, health and environmental regulations/legislation specific for the substance or mixture \cdot Sara

· Section 355 (extremely hazardous substances):

CAS: 7664-93-9 Sulfuric Acid 96 - 98%

• Section 313 (Specific toxic chemical listings):

CAS: 75-09-2 Dichloromethane (Methylene Chloride)

CAS: 67-56-1 Methanol

CAS: 7664-93-9 Sulfuric Acid 96 - 98%

· TSCA (Toxic Substances Control Act):

This chemical/product is not and cannot be distributed in commerce (as defined in TSCA section 3(5)) or processed (as defined in TSCA section 3(13)) for consumer paint or coating removal.

· Hazardous Air Pollutants	
Sulfuric Acid 96 - 98%	ACTIVE
Methanol	ACTIVE
Dichloromethane (Methylene Chloride)	ACTIVE
Acetic Acid, Glacial	ACTIVE

CAS: 75-09-2 Dichloromethane (Methylene Chloride)

CAS: 67-56-1 Methanol

· Proposition 65

· Chemicals known to cause cancer:

CAS: 75-09-2 Dichloromethane (Methylene Chloride)

· 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

· Carcinogenic categories

· EPA (Environmental Protection Agency)

CAS: 75-09-2 Dichloromethane (Methylene Chloride)

· TLV (Threshold Limit Value)

CAS: 75-09-2 Dichloromethane (Methylene Chloride)

CAS: 7664-93-9 Sulfuric Acid 96 - 98%

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

CAS: 75-09-2 Dichloromethane (Methylene Chloride)

• *GHS label elements* The product is classified and labeled according to the Globally Harmonized System (GHS). (Contd. on page 12)

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(Contd. of page 11) · Hazard pictograms GHS06 GHS07 GHS02 GHS05 GHS08 · Signal word Danger · Hazard-determining components of labeling: Acetic Acid, Glacial Methanol Dichloromethane (Methylene Chloride) Sulfuric Acid 96 - 98% · Hazard statements Highly flammable liquid and vapor. Harmful if swallowed. Toxic in contact with skin. Causes severe skin burns and eye damage. May cause an allergic skin reaction. May cause cancer. Causes damage to the central nervous system and the visual organs. · Precautionary statements Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Keep container tightly closed. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting/equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Do not breathe dusts or mists. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Contaminated work clothing must not be allowed out of the workplace. Wear protective gloves/protective clothing/eye protection/face protection. If swallowed: Call a poison center/doctor if you feel unwell. 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. IF exposed or concerned: Get medical advice/attention. Specific treatment (see on this label). Take off immediately all contaminated clothing and wash it before reuse. If skin irritation or rash occurs: Get medical advice/attention. 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. (Contd. on page 13)

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Chemicai sa	Information about limitation of use: Workers are not allowed to be exposed to the hazardous carcinogenic materials contained in this preparate Exceptions can be made by the authorities in certain cases. Chemical safety assessment: A Chemical Safety Assessment has not been carried out.		
Other info	rmation		
	tion is based on our present knowledge. However, this shall not constitute a guarantee uct features and shall not establish a legally valid contractual relationship.	for	
Department	issuing SDS: Environment protection department.		
Contact:	.		
	uration / last revision		
	05/11/2023, reviewed SDS for accuracy. STN		
05/11/2023			
	s and acronyms:		
	ional Maritime Code for Dangerous Goods		
	tment of Transportation		
	nal Air Transport Association		
	ean Inventory of Existing Commercial Chemical Substances		
	ean List of Notified Chemical Substances		
CAS: Chemical	Abstracts Service (division of the American Chemical Society)		
	Fire Protection Association (USA)		
	us Materials Identification System (USA)		
	Organic Compounds (USA, EU)		
	ncentration, 50 percent		
LD50: Lethal d	se, so percent Bioaccumulative and Toxic		
	istent and very Bioaccumulative		
	I Institute for Occupational Safety		
	ional Safety & Health		
TLV: Threshold			
PEL: Permissib	e Exposure Limit		
REL: Recomme	ided Exposure Limit		
BEI: Biological			
	ids 2: Flammable liquids – Category 2		
	Oral 4: Acute toxicity – Category 4		
	Dermal 3: Acute toxicity – Category 3		
	1B: Skin corrosion/irritation – Category 1B Society and demonstration – Category 1		
	Serious eye damage/eye irritation – Category 1 kin 1: Skin sensitisation – Category 1		
	1A: Carcinogenicity – Category 1A		
	Organ Toxicity - Single Exposure 1: Specific target organ toxicity (single exposure) – Category 1		