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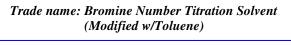
*

Reviewed on 07/01/2024

1 Identification	
· Product identifier	
• Trade name: <u>Bromine Number Titration Solvent</u> (Modified w/Toluene)	
· Article number: 1369	
 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 	AQUA SOLUTIONS
 Information department: Technical Coordinator Sherman Nelson shermann@aquasolutions.org Emergency telephone number: Chemtrec: 800-424-9300 Canutec: 613-996-6666 	
2 Hazard(s) identification	
\cdot Classification of the substance or mixture	
GHS02 Flame	
	H225 Highly flammable liquid and vapor.
GHS02 Flame	H225 Highly flammable liquid and vapor.
GHS02 Flame	H225 Highly flammable liquid and vapor.
GHS02 Flame Flammable Liquids 2	H225 Highly flammable liquid and vapor. H311 Toxic in contact with skin.
GHS02 Flame Flammable Liquids 2 GHS06 Skull and crossbones	
GHS02 Flame Flammable Liquids 2 GHS06 Skull and crossbones Acute Toxicity - Dermal 3	
GHS02 Flame Flammable Liquids 2 GHS06 Skull and crossbones Acute Toxicity - Dermal 3 GHS08 Health hazard	H311 Toxic in contact with skin. H350 May cause cancer.
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. H361 Suspected of damaging fertility or the unborn chi
GHS02 Flame Flammable Liquids 2 GHS06 Skull and crossbones Acute Toxicity - Dermal 3 GHS08 Health hazard Carcinogenicity IA Toxic to Reproduction 2 Specific Target Organ Toxicity - Single Exposure 1	 H311 Toxic in contact with skin. H350 May cause cancer. H361 Suspected of damaging fertility or the unborn chin H370 Causes damage to the central nervous system a the visual organs. 2 H373 May cause damage to organs through prolonged repeated exposure.
GHS02 FlameFlammable Liquids 2GHS06 Skull and crossbonesAcute Toxicity - Dermal 3OFHS08 Health hazardCarcinogenicity 1AToxic to Reproduction 2Specific Target Organ Toxicity - Single Exposure 1	 H311 Toxic in contact with skin. H350 May cause cancer. H361 Suspected of damaging fertility or the unborn chi. H370 Causes damage to the central nervous system a the visual organs. 2 H373 May cause damage to organs through prolonged
GHS02 Flame Flammable Liquids 2 GHS06 Skull and crossbones Acute Toxicity - Dermal 3 GHS08 Health hazard Carcinogenicity 1A Toxic to Reproduction 2 Specific Target Organ Toxicity - Single Exposure 1 Specific Target Organ Toxicity - Repeated Exposure 1	 H311 Toxic in contact with skin. H350 May cause cancer. H361 Suspected of damaging fertility or the unborn chi. H370 Causes damage to the central nervous system a the visual organs. 2 H373 May cause damage to organs through prolonged repeated exposure.
GHS02 Flame Flammable Liquids 2 GHS06 Skull and crossbones Acute Toxicity - Dermal 3 GHS08 Health hazard Carcinogenicity 1A Toxic to Reproduction 2 Specific Target Organ Toxicity - Single Exposure 1 Specific Target Organ Toxicity - Repeated Exposure Aspiration Hazard 1	 H311 Toxic in contact with skin. H350 May cause cancer. H361 Suspected of damaging fertility or the unborn chin H370 Causes damage to the central nervous system a the visual organs. 2 H373 May cause damage to organs through prolonged repeated exposure.

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(Contd. of page 1) GHS07 Acute Toxicity - Oral 4 H302 Harmful if swallowed. Sensitization - Skin 1 H317 May cause an allergic skin reaction. · Label elements • GHS label elements The product is classified and labeled according to the Globally Harmonized System (GHS). · Hazard pictograms GHS07 GHS08 GHS02 GHS05 GHS06 · Signal word Danger · Hazard-determining components of labeling: Acetic Acid, Glacial Methanol Toluene 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. Suspected of damaging fertility or the unborn child. Causes damage to the central nervous system and the visual organs. 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. 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: Immediately call a poison center/doctor. Specific treatment (see on this label). 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.

(Contd. on page 3)

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Trade name: Bromine Number Titration Solvent (Modified w/Toluene)

	(Contd. of page 2)
If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present Continue vinsing	it and easy to do.
Continue rinsing. IF exposed or concerned: Get medical advice/attention.	
Get medical advice/attention if you feel unwell.	
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 regulation) <i>n</i> s
• Classification system:	115.
· NFPA ratings (scale 0 - 4)	
Health = 3	
Fire = 3	
3 0 Reactivity = 0	
· HMIS-ratings (scale 0 - 4)	
$\frac{\text{HEALTH}}{\text{HEALTH}} = *3$	
FIRE 3 Fire = 3	
REACTIVITY 0 Reactivity = 0	
· Other hazards Besults of PBT and uPuP research out	
• Results of PBT and vPvB assessment • PBT: Not applicable.	
• vPvB : Not applicable.	
3 Composition/information on ingredients	
- S composition information on ingreactions	
· Chemical characterization: Mixtures	
• Description: Mixture of the substances listed below with nonhazardous additions.	
Dangerous components:	
CAS: 64-19-7 Acetic Acid, Glacial	74.77%
CAS: 108 88 3 Tolugna	11 008%

CAS: 64-19-7	Acetic Acid, Glacial	74.77%
CAS: 108-88-3	Toluene	11.998%
CAS: 67-56-1	Methanol	10.956%
CAS: 7664-93-9	Sulfuric Acid 96 - 98%	0.607%
•	ardous Ingredients	
CAS: 7732-18-5	Water	1.669%

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.

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(Contd. of page 3)

- 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.
- · 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.
- \cdot 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 Acid, Glacial	5 ppm
CAS: 108-88-3	Toluene	67 ppm
CAS: 67-56-1	Methanol	530 ppm
CAS: 7664-93-9	Sulfuric Acid 96 - 98%	0.20 mg/m ³
· PAC-2:		
CAS: 64-19-7	Acetic Acid, Glacial	35 ppm
CAS: 108-88-3	Toluene	560 ppm
		(Contd. on page 5)

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Trade name: Bromine Number Titration Solvent (Modified w/Toluene)

		(Contd. of page 4)
CAS: 67-56-1	Methanol	2,100 ppm
CAS: 7664-93-9	Sulfuric Acid 96 - 98%	8.7 mg/m ³
· PAC-3:		
CAS: 64-19-7	Acetic Acid, Glacial	250 ppm
CAS: 108-88-3	Toluene	3700* ppm
CAS: 67-56-1	Methanol	7200* ppm
CAS: 7664-93-9	Sulfuric Acid 96 - 98%	160 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	Components with limit values that require monitoring at the workplace: CAS: 64-19-7 Acetic Acid, Glacial	
CAS		
PEL	Long-term value: 25 mg/m ³ , 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	
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	
	(Contd. on page 6)	

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Safety Data Sheet acc. to OSHA HCS

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Trade name: Bromine Number Titration Solvent (Modified w/Toluene)

	(Contd. of page
TLV	Long-term value: 20 ppm
	BEI, OTO, A4
CAS	: 67-56-1 Methanol
PEL	Long-term value: 260 mg/m ³ , 200 ppm
REL	Short-term value: 325 mg/m³, 250 ppm
	Long-term value: 260 mg/m ³ , 200 ppm
	Skin
TLV	Short-term value: 250 ppm
	Long-term value: 200 ppm
	Skin; BEIc
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: $0.2* \text{ mg/m}^3$
	*as thoracic fraction, A2
· Ingre	edients with biological limit values:
-	: 108-88-3 Toluene
	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)
CAS.	: 67-56-1 Methanol
	15 mg/L
	LD50 Intraperitoneal: urine
	Time: end of shift
	LD50: Methanol (background, nonspecific)
· Addi	tional information: The lists that were valid during the creation were used as basis.
· Expo	osure controls
	onal protective equipment:
	eral protective and hygienic measures:
	a away from foodstuffs, beverages and feed.
	ediately remove all soiled and contaminated clothing. In hands before breaks and at the end of work.
	protective clothing separately.
	d contact with the eyes.
	d contact with the eyes and skin.
· Brea	thing equipment:
	se of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure u
respi	ratory protective device that is independent of circulating air.
	(Contd. on page

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Trade name: Bromine Number Titration Solvent (Modified w/Toluene)

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· 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.

· Eye protection:



Tightly sealed goggles

· Body protection: Protective work clothing

9 Physical and chemical proper	rties
· Information on basic physical and	chemical properties
• General Information	
· Appearance:	
Form:	Liquid
Color:	Colorless
· Odor:	Vinegar like
· Odor threshold:	Not determined.
· pH-value:	Not determined.
• Change in condition Melting point/Melting range: Boiling point/Boiling range:	Undetermined. 64.4 °C (147.9 °F)
· Flash point:	4 °C (39.2 °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/vapor mixtures are possible.
· Explosion limits: Lower:	1.2 Vol %
	(Contd. on page 8

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Trade name: Bromine Number Titration Solvent (Modified w/Toluene)

		(Contd. of page 7)
Upper:	44 Vol %	
· Vapor pressure at 20 °C (68 °F):	128 hPa (96 mm Hg)	
• Density at 20 °C (68 °F):	0.9681 g/cm ³ (8.07879 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.	
· Solvent content:		
Organic solvents:	97.7 %	
Water:	1.7 %	
VOC content:	97.72 %	
	946.1 g/l / 7.90 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)
------------	-----------------	-----------

Oral	LD50	913 mg/kg
Dermal	LD50	934 mg/kg
Inhalative	LC50/4h	27.4 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.

(Contd. on page 9)

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Trade name: Bromine Number Titration Solvent (Modified w/Toluene)

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· 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: 108-88-3 Toluene

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

· NTP (National Toxicology Program)

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

· 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.
- · 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.

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Trade name: Bromine Number Titration Solvent (Modified w/Toluene)

(Contd. of page 9)

· UN-Number	
· DOT, IMDG, IATA	UN2924
· UN proper shipping name	
·DOT	Flammable liquids, corrosive, n.o.s. (Acetic Acid, Glacial
MDC LATA	, Methanol, Toluene) FLAMMABLE LIQUID, CORROSIVE, N.O.S. (Acetic Ac
· IMDG, IATA	Glacial
	, Methanol, Toluene)
· Transport hazard class(es)	
·DOT	
3	
· Class	3 Flammable liquids
· Label	3, 8
· IMDG	
3	
· Class	3 Flammable liquids
· Label	3/8
· IATA	
· Class	3 Flammable liquids
· Label	3 (8)
· Packing group	
· DOT, IMDG, IATA	II
· Environmental hazards:	Not applicable.
· Special precautions for user	Warning: Flammable liquids
• Hazard identification number (Kemler code)	
· EMS Number: · Segregation groups	F-E,S-C (SGG1) Acids
· Stowage Category	B
· Stowage Code	SW2 Clear of living quarters.
· Transport in bulk according to Annex II of	
MARPOL73/78 and the IBC Code	Not applicable.

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Trade name: Bromine Number Titration Solvent (Modified w/Toluene)

	(Contd. of page 10)
· Transport/Additional information:	
· DOT · Quantity limitations	On passenger aircraft/rail: 1 L On cargo aircraft only: 5 L
· 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
· UN "Model Regulation":	UN 2924 FLAMMABLE LIQUID, CORROSIVE, N.O.S. (ACETIC ACID, GLACIAL , METHANOL, TOLUENE), 3 (8), II

15 Regulatory information

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

· Section 355 (ext	tremely hazardous substances):	
CAS: 7664-93-9	Sulfuric Acid 96 - 98%	
· Section 313 (Spe	ecific toxic chemical listings):	
CAS: 108-88-3	Toluene	
CAS: 67-56-1	Methanol	
CAS: 7664-93-9	Sulfuric Acid 96 - 98%	
· TSCA (Toxic Su	ubstances Control Act):	
Acetic Acid, Gla	icial	ACTIVE
Toluene		ACTIVE
Methanol		ACTIVE
Water		ACTIVE
Sulfuric Acid 96	- 98%	ACTIVE
· Hazardous Air I	Pollutants	
CAS: 108-88-3	Toluene	
CAS: 67-56-1	Methanol	
· Proposition 65		
 Chemicals know 	vn to cause cancer:	
None of the ingr	edients is listed.	
· Chemicals know	vn to cause reproductive toxicity for females:	
None of the ingr	edients is listed.	
· Chemicals know	vn to cause reproductive toxicity for males:	
None of the ingr	edients is listed.	
· Chemicals know	vn to cause developmental toxicity:	
CAS: 108-88-3	Toluene	
CAS: 67-56-1	Methanol	
		(Contd. on page 12)

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•	Carcino	genic	categories
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· EPA (Environmental Protection Agency)

CAS: 108-88-3 Toluene

· TLV (Threshold Limit Value)

CAS: 108-88-3 Toluene

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

\cdot 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: Acetic Acid, Glacial Methanol Toluene 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. Suspected of damaging fertility or the unborn child. Causes damage to the central nervous system and the visual organs. 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. 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: Immediately call a poison center/doctor. Specific treatment (see on this label). If swallowed: Rinse mouth. Do NOT induce vomiting.

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Trade name: Bromine Number Titration Solvent (Modified w/Toluene)

(Contd. of page 12)	
If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.	
IF INHALED: Remove person to fresh air and keep comfortable for breathing. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.	
Continue rinsing.	
IF exposed or concerned: Get medical advice/attention.	
Get medical advice/attention if you feel unwell.	
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.	
· National regulations:	
· Additional classification according to Decree on Hazardous Materials:	
Carcinogenic hazardous material group III (dangerous).	
· Information about limitation of use:	
Workers are not allowed to be exposed to the hazardous carcinogenic materials contained in this preparation.	
Exceptions can be made by the authorities in certain cases.	
· Chemical safety assessment: A Chemical Safety Assessment has not been carried out.	
	í
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 07/01/2024: Reviewed SDS for accuracy. MH/STN Basician 0.0, 05, 20, 2024: Creation date for SDS STN	
<i>Revision 0.0, 05-29-2024: Creation date for SDS. STN 07/01/2024 / 1.1</i>	
· 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	
BEI: Biological Exposure Limit	
Flammable Liquids 2: Flammable liquids – Category 2	
Acute Toxicity - Oral 4: Acute toxicity – Category 4 Acute Toxicity - Dermal 3: Acute toxicity – Category 3	

Skin Corrosion 1B: Skin corrosion/irritation – Category 1B Eye Damage 1: Serious eye damage/eye irritation – Category 1

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Sensitization - Skin 1: Skin sensitisation – Category 1 Carcinogenicity 1A: Carcinogenicity – Category 1A Toxic to Reproduction 2: Reproductive toxicity – Category 2 Specific Target Organ Toxicity - Single Exposure 1: Specific target organ toxicity (single exposure) – Category 1 Specific Target Organ Toxicity - Repeated Exposure 2: Specific target organ toxicity (repeated exposure) – Category 2 Aspiration Hazard 1: Aspiration hazard – Category 1 • * Data compared to the previous version altered.