Printing date 05/15/2024 Reviewed on 05/15/2024

### 1 Identification

· Product identifier

· Trade name: <u>Bromine Index Number</u>

**Titration Solvent** 

· Article number: LY001A

· Restrictions

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.

- · 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 shermann@aquasolutions.org

Emergency telephone number: Chemtrec: 800-424-9300 Canutec: 613-996-6666

# 2 Hazard(s) identification

· Classification of the substance or mixture



GHS02 Flame

Flammable Liquids 2

H225 Highly flammable liquid and vapor.



GHS08 Health hazard

Carcinogenicity 1A H350 May cause cancer.

Toxic to Reproduction 2 H361 Suspected of damaging fertility or the unborn child.

Specific Target Organ Toxicity - Single Exposure 1 H370 Causes damage to the central nervous system and

the visual organs.

Specific Target Organ Toxicity - Repeated Exposure 2 H373 May cause damage to organs through prolonged or repeated exposure.



Skin Corrosion 1B H314 Causes severe skin burns and eye damage.

Eye Damage 1 H318 Causes serious eye damage.



Acute Toxicity - Oral 4 H302 Harmful if swallowed.

Acute Toxicity - Dermal 4 H312 Harmful in contact with skin.

(Contd. on page 2)

Printing date 05/15/2024 Reviewed on 05/15/2024

Trade name: Bromine Index Number **Titration Solvent** 

(Contd. of page 1)

Sensitization - Skin 1

H317 May cause an allergic skin reaction.

Specific Target Organ Toxicity - Single Exposure 3

H336 May cause drowsiness or dizziness.

- · GHS label elements The product is classified and labeled according to the Globally Harmonized System (GHS).
- · Hazard pictograms









GHS05

GHS07

- · Signal word Danger
- · Hazard-determining components of labeling:

Acetic Acid, Glacial

Methanol

Dichloromethane (Methylene Chloride)

Toluene

Mercuric Chloride

Sulfuric Acid 96 - 98%

· Hazard statements

Highly flammable liquid and vapor.

Harmful if swallowed or 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 drowsiness or dizziness.

May cause damage to organs through prolonged or repeated exposure.

### · 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.

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).

(Contd. on page 3)

Reviewed on 05/15/2024 Printing date 05/15/2024

Trade name: Bromine Index Number **Titration Solvent** 

(Contd. of page 2)

Get medical advice/attention if you feel unwell.

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 container tightly closed.

Store in a well-ventilated place. Keep cool.

Store locked up.

Dispose of contents/container in accordance with local/regional/national/international regulations.

- · Classification system:
- · NFPA ratings (scale 0 4)



Health = 3Fire = 2Reactivity = 1

· HMIS-ratings (scale 0 - 4)



2 Health = 2 Fire = 2

- · Other hazards
- · Results of PBT and vPvB assessment
- · **PBT**: Not applicable.
- · vPvB: Not applicable.

### 3 Composition/information on ingredients

- · Chemical characterization: Mixtures
- · Description: Mixture of the substances listed below with nonhazardous additions.

•	*	
· Dangerous components:		
CAS: 64-19-7	Acetic Acid, Glacial	64.423%
CAS: 75-09-2	Dichloromethane (Methylene Chloride)	15.53%
CAS: 67-56-1	Methanol	10.355%
CAS: 108-88-3	Toluene	8.365%
CAS: 7664-93-9	Sulfuric Acid 96 - 98%	0.475%
CAS: 7487-94-7	Mercuric Chloride	0.156%
· Table of Nonhazardous Ingredients		
CAS: 7732-18-5	Water	0.436%

### 4 First-aid measures

· Description of first aid measures

CAS: 7758-02-3 Potassium Bromide

· 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.

(Contd. on page 4)

0.261%

Printing date 05/15/2024 Reviewed on 05/15/2024

Trade name: Bromine Index Number Titration Solvent

(Contd. of page 3)

· 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.
- · 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.

 $\cdot \textit{Methods and material for containment and cleaning up:} \\$ 

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

1 Tolective Action Criteria for Chemicals			
· PAC-1:			
CAS: 64-19-7	Acetic Acid, Glacial	5 ppm	
CAS: 75-09-2	Dichloromethane (Methylene Chloride)	200 ppm	
CAS: 67-56-1	Methanol	530 ppm	
01101 100 00 0		67 ppm	
CAS: 7664-93-9	Sulfuric Acid 96 - 98%	$0.20  mg/m^3$	

(Contd. on page 5)

Printing date 05/15/2024 Reviewed on 05/15/2024

Trade name: Bromine Index Number Titration Solvent

CAS: 7758-02-3	Potassium Bromide	(Contd. of pag 9.2 mg/m
CAS: 7487-94-7	Mercuric Chloride	0.1 mg/m <sup>-</sup>
· PAC-2:		
CAS: 64-19-7	Acetic Acid, Glacial	35 ppm
CAS: 75-09-2	Dichloromethane (Methylene Chloride)	560 ppm
CAS: 67-56-1	Methanol	2,100 ppn
CAS: 108-88-3	Toluene	560 ppm
CAS: 7664-93-9	Sulfuric Acid 96 - 98%	8.7 mg/m
CAS: 7758-02-3	Potassium Bromide	100 mg/m
CAS: 7487-94-7	Mercuric Chloride	0.14 mg/n
· <i>PAC-3:</i>		
CAS: 64-19-7	Acetic Acid, Glacial	250 ppm
CAS: 75-09-2	Dichloromethane (Methylene Chloride)	6,900 ppr
CAS: 67-56-1	Methanol	7200* pp
CAS: 108-88-3	Toluene	3700* pp
CAS: 7664-93-9	Sulfuric Acid 96 - 98%	160 mg/m
CAS: 7758-02-3	Potassium Bromide	610 mg/m
CAS: 7487-94-7	Mercuric Chloride	38 mg/m³

### 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.

(Contd. on page 6)

Printing date 05/15/2024 Reviewed on 05/15/2024

Trade name: Bromine Index Number Titration Solvent

(Contd. of page 5) · 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/m<sup>3</sup>, 10 ppm REL Short-term value: 37 mg/m<sup>3</sup>, 15 ppm Long-term value: 25 mg/m³, 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 REL See Pocket Guide App. A TLV Long-term value: 50 ppm BEI, A3 CAS: 67-56-1 Methanol 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: 250 ppm Long-term value: 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: 20 ppm BEI, OTO, A4 CAS: 7664-93-9 Sulfuric Acid 96 - 98% PEL Long-term value: 1 mg/m<sup>3</sup> REL Long-term value: 1 mg/m<sup>3</sup> TLV Long-term value: 0.2\* mg/m<sup>3</sup> \*as thoracic fraction, A2 CAS: 7487-94-7 Mercuric Chloride PEL Long-term value: 0.1 mg/m³ as Hg; see OSHA standard interpretation memo REL Long-term value: 0.05\* mg/m<sup>3</sup> Ceiling limit value: 0.1 mg/m<sup>3</sup> as Hg; \*Vapor; Skin TLV Long-term value: 0.025 mg/m<sup>3</sup> as Hg; A4; Skin; BEI

(Contd. on page 7)

Printing date 05/15/2024 Reviewed on 05/15/2024

Trade name: Bromine Index Number
Titration Solvent

(Contd. of page 6)

#### · Ingredients 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

#### BEI 15 mg/L

LD50 Intraperitoneal: urine

Time: end of shift

LD50: Methanol (background, nonspecific)

#### CAS: 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)

#### CAS: 7487-94-7 Mercuric Chloride

### BEI 20 μg/g creatinine

LD50 Intraperitoneal: urine

Time: prior to shift LD50: Mercury

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

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

(Contd. on page 8)

Printing date 05/15/2024 Reviewed on 05/15/2024

Trade name: Bromine Index Number Titration Solvent

(Contd. of page 7)

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

	ties
Information on basic physical and c General Information	hemical properties
Appearance:	
Form:	Liquid
Color:	Clear
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:	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/vap-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):	1.03629 g/cm³ (8.64784 lbs/gal)
Relative density	Not determined.
Vapor density	Not determined.

(Contd. on page 9)

Printing date 05/15/2024 Reviewed on 05/15/2024

Trade name: Bromine Index Number Titration Solvent

		(Contd. of page
· Evaporation rate	Not determined.	
· Solubility in / Miscibility with		
Water:	Not miscible or difficult to mix.	
· Partition coefficient (n-octanol/v	vater): Not determined.	
· Viscosity:		
Dynamic:	Not determined.	
Kinematic:	Not determined.	
· Solvent content:		
Organic solvents:	98.7 %	
Water:	0.4 %	
VOC content:	83.14 %	
	861.6 g/l / 7.19 lb/gal	
Solids content:	0.4 %	
· 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	· LD/LC50 values that are relevant for classification:				
ATE (Acua	ATE (Acute Toxicity Estimate)				
Oral	LD50	742 mg/kg			
Dermal	<i>LD50</i>	1,049 mg/kg			
Inhalative	Inhalative LC50/4h 29 mg/l				

- · 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 preparations: Harmful

Corrosive

Irritant

(Contd. on page 10)

Printing date 05/15/2024 Reviewed on 05/15/2024

Trade name: Bromine Index Number Titration Solvent

(Contd. of page 9)

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 (Internation	onal Agency for Research on Cancer)	
CAS: 75-09-2	Dichloromethane (Methylene Chloride)	2A
CAS: 108-88-3	Toluene	3
CAS: 7664-93-9	Sulfuric Acid 96 - 98%	1
CAS: 7487-94-7	Mercuric Chloride	3
· NTP (National T	Toxicology Program)	
CAS: 75-09-2	Dichloromethane (Methylene Chloride)	R
CAS: 7664-93-9	Sulfuric Acid 96 - 98%	K
	upational Safety & Health Administration)	
	ichloromethane (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

- · 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.

### 14 Transport information

- · UN-Number
- · DOT, IMDG, IATA

UN2924

(Contd. on page 11)

Printing date 05/15/2024 Reviewed on 05/15/2024

Trade name: Bromine Index Number Titration Solvent

(Contd. of page 10)

· UN proper shipping name

· DOT Flammable liquids, corrosive, n.o.s. (Acetic Acid, Glacial

, Methanol, Toluene)

· IMDG, IATA FLAMMABLE LIQUID, CORROSIVE, N.O.S. (Acetic Acid,

Glacial

, Methanol, Toluene)

· Transport hazard class(es)

 $\cdot DOT$ 





· Class 3 Flammable liquids

• *Label* 3, 8

· IMDG





· Class 3 Flammable liquids

• **Label** 3/8

 $\cdot$  IATA





· Class 3 Flammable liquids

• **Label** 3 (8)

· Packing group

· DOT, IMDG, IATA

· Environmental hazards:

· Marine pollutant:

· Special precautions for user Warning: Flammable liquids

· Hazard identification number (Kemler code): 338

• EMS Number: F-E,S-C

• Segregation groups (SGG1) Acids, (SGG7) heavy metals and their salts (including

their organometallic compounds), (SGG11) mercury and mercury

compounds

· Stowage Category

• Stowage Code SW2 Clear of living quarters.

· Transport in bulk according to Annex II of

MARPOL73/78 and the IBC Code Not applicable.

(Contd. on page 12)

Printing date 05/15/2024 Reviewed on 05/15/2024

Trade name: Bromine Index Number Titration Solvent

	(Contd. of page 1)
· 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. (ACETI ACID, GLACIAL , METHANOL, TOLUENE), 3 (8), II

# 15 Regulatory information

- · Safety, health and environmental regulations/legislation specific for the substance or mixture
- · Sara

· Section 355 (extremely hazardous substances):		
CAS: 7664-93-9	Sulfuric Acid 96 - 98%	
CAS: 7487-94-7	Mercuric Chloride	
· Section 313 (Spe	ecific toxic chemical listings):	
CAS: 75-09-2	Dichloromethane (Methylene Chloride)	
CAS: 67-56-1	Methanol	
	Toluene	
CAS: 7664-93-9	Sulfuric Acid 96 - 98%	
CAS: 7487-94-7	Mercuric Chloride	

### · 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.

Acetic Acid, Glacial	ACTIVE
Dichloromethane (Methylene Chloride)	ACTIVE
Methanol	ACTIVE
Toluene	ACTIVE
Sulfuric Acid 96 - 98%	ACTIVE
Water	ACTIVE
Potassium Bromide	ACTIVE
Mercuric Chloride	ACTIVE

· Hazardous Air Pollutants		
CAS: 75-09-2	Dichloromethane (Methylene Chloride)	
CAS: 67-56-1	Methanol	
CAS: 108-88-3	Toluene	
CAS: 7487-94-7	Mercuric Chloride	

(Contd. on page 13)

Printing date 05/15/2024 Reviewed on 05/15/2024

Trade name: Bromine Index Number **Titration Solvent** 

(Contd. of page 12)

•	Pro	position	<i>65</i>

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
CAS: 108-88-3	Toluene
CAS: 7487-94-7	Mercuric Chloride

#### · Carcinogenic categories

· EPA (Environmental Protection Agency)		
CAS: 75-09-2	Dichloromethane (Methylene Chloride)	L
CAS: 108-88-3	Toluene	II
CAS: 7487-94-7	Mercuric Chloride	C

· TLV (Threshold Limit Value)			
CAS: 75-09-2	Dichloromethane (Methylene Chloride)	<i>A3</i>	
CAS: 108-88-3	Toluene	A4	
CAS: 7664-93-9	Sulfuric Acid 96 - 98%	A2	
CAS: 7487-94-7	Mercuric Chloride	A4	

# · 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).
- · Hazard pictograms









GHS02

GHS05

GHS07

GHS08

· Signal word Danger

#### · Hazard-determining components of labeling:

Acetic Acid, Glacial

Methanol

Dichloromethane (Methylene Chloride)

Toluene

Mercuric Chloride

Sulfuric Acid 96 - 98%

#### · Hazard statements

Highly flammable liquid and vapor.

Harmful if swallowed or 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.

(Contd. on page 14)

Printing date 05/15/2024 Reviewed on 05/15/2024

Trade name: Bromine Index Number Titration Solvent

(Contd. of page 13)

Causes damage to the central nervous system and the visual organs.

May cause drowsiness or dizziness.

May cause damage to organs through prolonged or repeated exposure.

#### · 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.

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).

Get medical advice/attention if you feel unwell.

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 container tightly closed.

Store in a well-ventilated place. Keep cool.

Store locked up.

Dispose of contents/container in accordance with local/regional/national/international regulations.

- · 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.

 $\cdot \textit{Chemical safety assessment:} \ A \ \textit{Chemical Safety Assessment has not been carried out.} \\$ 

### 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:

(Contd. on page 15)

Printing date 05/15/2024 Reviewed on 05/15/2024

Trade name: Bromine Index Number Titration Solvent

(Contd. of page 14)

#### · Date of preparation / last revision

Revision 1.2, 05/15/2024: Reviewed SDS for accuracy. MH/STN 05/15/2024

#### · 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

BEI: Biological Exposure Limit

Flammable Liquids 2: Flammable liquids – Category 2

Acute Toxicity - Oral 4: Acute toxicity - Category 4

Skin Corrosion 1B: Skin corrosion/irritation - Category 1B

Eye Damage 1: Serious eye damage/eye irritation - Category 1

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

\* Data compared to the previous version altered.

110