Printing date 08/12/2024 Reviewed on 08/12/2024

1 Identification

· Product identifier

· Trade name: Bromine Index Number

Titration Solvent (ASTM D5776-14a)

· Article number: MDM043

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.



GHS06 Skull and crossbones

Acute Toxicity - Dermal 3 H311 Toxic in contact with skin.



GHS08 Health hazard

Carcinogenicity 1A H350 May cause cancer.

Toxic to Reproduction 1B H360 May damage fertility or the unborn child.

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



GHS05 Corrosion

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

Eye Damage 1 H318 Causes serious eye damage.



Acute Toxicity - Oral 4 H302 Harmful if swallowed.

Sensitization - Skin 1 H317 May cause an allergic skin reaction.

(Contd. on page 2)

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Titration Solvent (ASTM D5776-14a)

(Contd. of page 1)

Specific Target Organ Toxicity - Single Exposure 3 H335 May cause respiratory irritation.

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









GHS05

GHS06 GHS07

· Signal word Danger

· Hazard-determining components of labeling:

Acetic Acid, Glacial

Methanol

1-Methyl-2-Pyrrolidinone

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.

May damage fertility or the unborn child.

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

May cause respiratory irritation.

· 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).

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.

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Titration Solvent (ASTM D5776-14a)

(Contd. of page 2)

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 = 3 Fire = 3 Reactivity = 0

· HMIS-ratings (scale 0 - 4)



Health = *3 Fire = 3Reactivity = 0

- · 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 Ac	etic Acid, Glacial	74.022%
CAS: 872-50-4 1-1	1ethyl-2-Pyrrolidinone	13.536%
CAS: 67-56-1 Me	thanol	10.422%
CAS: 7664-93-9 Su	furic Acid 96 - 98%	0.544%
· Table of Nonhazara	9	
CAS: 7732-18-5 Wa	ter	1.477%

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.

(Contd. on page 4)

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Titration Solvent (ASTM D5776-14a)

(Contd. of page 3)

- · 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.

· 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.

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: 872-50-4	1-Methyl-2-Pyrrolidinone	30 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: 872-50-4	1-Methyl-2-Pyrrolidinone	32 ppm
CAS: 67-56-1	Methanol	2,100 ppm
CAS: 7664-93-9	Sulfuric Acid 96 - 98%	8.7 mg/m³
· PAC-3:		
CAS: 64-19-7	Acetic Acid, Glacial	250 ppm
CAS: 872-50-4	1-Methyl-2-Pyrrolidinone	190 ppm
		(Contd. on page 5

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Titration Solvent (ASTM D5776-14a)

		(Contd. of page 4)
CAS: 67-56-1	Methanol	7200* ppm
CAS: 7664-93-9	Sulfuric Acid 96 - 98%	160 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.
- · Control parameters

· Comp	onents 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
CAS:	872-50-4 1-Methyl-2-Pyrrolidinone
TLV	BEI
WEEL	Long-term value: 10 ppm Skin
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; BEIc
	(Contd. on page 6

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Titration Solvent (ASTM D5776-14a)

(Contd. of page 5) CAS: 7664-93-9 Sulfuric Acid 96 - 98% PELLong-term value: 1 mg/m³ RELLong-term value: 1 mg/m³ Long-term value: 0.2* mg/m³ TLV*as thoracic fraction, A2 · Ingredients with biological limit values: CAS: 872-50-4 1-Methyl-2-Pyrrolidinone BEI 100 mg/L LD50 Intraperitoneal: urine Time: end of shift LD50: 5-Hydroxy-N-methyl-2-pyrrolidone CAS: 67-56-1 Methanol BEI 15 mg/L LD50 Intraperitoneal: urine Time: end of shift LD50: Methanol (background, nonspecific)

- · 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

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.

(Contd. on page 7)

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Titration Solvent (ASTM D5776-14a)

(Contd. of page 6)

· Eye protection:



Tightly sealed goggles

· Body protection: Protective work clothing

Information on basic physical and c	chemical properties
General Information	
Appearance:	71
Form:	Liquid
Color: Odor:	Light yellow
Odor threshold:	Pungent Not determined.
pH-value at 20 °C (68 °F):	<2
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:	270 °C (518 °F)
Decomposition temperature:	Not determined.
Ignition temperature:	Product is not selfigniting.
Danger of explosion:	Product is not explosive. However, formation of explosive air/vamixtures are possible.
Explosion limits:	
Lower:	1.3 Vol %
Upper:	44 Vol %
Vapor pressure at 20 °C (68 °F):	128 hPa (96 mm Hg)
Density at 20 °C (68 °F):	1.0157 g/cm³ (8.47602 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	er): Not determined.
Viscosity:	
Dynamic:	Not determined.
Kinematic:	Not determined.
Solvent content:	
Organic solvents:	98.0 %

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Titration Solvent (ASTM D5776-14a)

	(Cont	d. of page 7)
Water: VOC content:	1.5 % 97.98 % 995.2 g/l / 8.31 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 1	· LD/LC50 values that are relevant for classification:		
ATE (Acut	ATE (Acute Toxicity Estimate)		
		959 mg/kg	
Dermal	LD50	956 mg/kg	
Inhalative	LC50/4h	28.8 mg/l	

- · Primary irritant effect:
- · on the skin: Strong 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:

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: 7664-93-9 Sulfuric Acid 96 - 98%	1
· NTP (National Toxicology Program)	
CAS: 7664-93-9 Sulfuric Acid 96 - 98%	K
	(Contd. on page 9)

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Titration Solvent (ASTM D5776-14a)

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· 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 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.

Rinse off of bigger amounts into drains or the aquatic environment may lead to decreased pH-values. A low pH-value harms aquatic organisms. In the dilution of the use-level the pH-value is considerably increased, so that after the use of the product the aqueous waste, emptied into drains, is only low water-dangerous.

- · 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:

14 Transport information

- · Recommendation: Disposal must be made according to official regulations.
- · Recommended cleansing agent: Water, if necessary with cleansing agents.

UN2920
Corrosive liquids, flammable, n.o.s. (Acetic Acid, Glacial , Methanol)

· IMDG, IATA

CORROSIVE LIQUID, FLAMMABLE, N.O.S. (Acetic Acid, Glacial, Methanol)

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Titration Solvent (ASTM D5776-14a)

(Contd. of page 9) · Transport hazard class(es) \cdot **DOT** · Class 8+3 · Label 8, 3 · IMDG · Class 8 Corrosive substances · Label 8/3 \cdot IATA · Class 8+3 ·Label 8(3)· Packing group · DOT, IMDG, IATA II · Environmental hazards: · Marine pollutant: No Not applicable. · Special precautions for user · Hazard identification number (Kemler code): 8+3 · EMS Number: *F-E,S-C* · Segregation groups (SGG1) Acids · Stowage Category SW1 Protected from sources of heat. · Stowage Code SW2 Clear of living quarters. · Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code Not applicable. · Transport/Additional information: \cdot IMDG · Limited quantities (LQ) ILCode: E2 · Excepted quantities (EQ) Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml (Contd. on page 11)

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Titration Solvent (ASTM D5776-14a)

(Contd. of page 10)

· UN "Model Regulation": UN 2920 CORROSIVE LIQUID, FLAMMABLE, N.O.S. (ACETIC

ACID, GLACIAL

, METHANOL), 8 (3), II

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15 12	$\rho \alpha m$	atom.	1 110 1	OVW OIL	101
				^f ormat	work
	-5				

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

· Section 355	(extremely	hazardous	substances):
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CAS: 7664-93-9 Sulfuric Acid 96 - 98%

· Section 313 (Specific toxic chemical listings):

CAS: 872-50-4	1-Methyl-2-Pyrrolidinone

CAS: 67-56-1 *Methanol*

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

· TSCA (Toxic Substances Control Act):

Acetic Acid, Glacial	ACTIVE
I-Methyl-2-Pyrrolidinone	ACTIVE
Methanol	ACTIVE
Water	ACTIVE
Sulfuric Acid 96 - 98%	ACTIVE

· Hazardous Air Pollutants

CAS: 67-56-1 Methanol

- · Proposition 65
- · Chemicals known to cause cancer:

None of the ingredients is listed.

· Chemicals known to cause reproductive toxicity for females:

None of the ingredients is listed.

· Chemicals known to cause reproductive toxicity for males:

None of the ingredients is listed.

Chemicals known to cause developmental toxicity:

CAS: 872-50-4 1-Methyl-2-Pyrrolidinone

CAS: 67-56-1 Methanol

· Carcinogenic categories

· EPA (Environmental Protection Agency)

None of the ingredients is listed.

· TLV (Threshold Limit Value)

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

A2

· 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).

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(Contd. of page 11)

· Hazard pictograms











GHS05

GHS06

GHS07

· Signal word Danger

· Hazard-determining components of labeling:

Acetic Acid, Glacial

Methanol

1-Methyl-2-Pyrrolidinone

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.

May damage fertility or the unborn child.

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

May cause respiratory irritation.

· 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).

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 container tightly closed.

Store in a well-ventilated place. Keep cool.

Store locked up.

(Contd. on page 13)

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(Contd. of page 12)

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.

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, 08-12-2024: Reviewed SDS for accuracy. STN/GW 08/12/2024 / 1.1

· 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 1A: Skin corrosion/irritation - Category 1A

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 1B: Reproductive toxicity - Category 1B

Specific Target Organ Toxicity - Single Exposure 1: Specific target organ toxicity (single exposure) - Category 1

* Data compared to the previous version altered.

He