Printing date 05/22/2024 Reviewed on 05/22/2024

1 Identification

· Product identifier

· Trade name: Benzene & Toluene 10% w/w in Heptane/Pentane 50:50 Matrix

· Article number: MOT091

· 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

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

Germ Cell Mutagenicity 1B H340 May cause genetic defects.

Carcinogenicity 1A H350 May cause cancer.

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

Specific Target Organ Toxicity - Repeated Exposure 1 H372 Causes damage to the central nervous system and

the hematopoietic system through prolonged or repeated exposure.

Aspiration Hazard 1 H304 May be fatal if swallowed and enters airways.



Skin Irritation 2 H315 Causes skin irritation.

Eye Irritation 2A H319 Causes serious eye irritation.

 $(Contd.\ on\ page\ 2)$

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Trade name: Benzene & Toluene 10% w/w in Heptane/Pentane 50:50 Matrix

(Contd. of page 1)

Specific Target Organ Toxicity - Single Exposure 3 H336 May cause drowsiness or dizziness.

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









GHS02

GHS06

GHS07

· Signal word Danger

· Hazard-determining components of labeling:

Benzene

Pentane

Toluene

n-Heptane

· Hazard statements

Highly flammable liquid and vapor.

Toxic in contact with skin.

Causes skin irritation.

Causes serious eye irritation.

May cause genetic defects.

May cause cancer.

Suspected of damaging fertility or the unborn child.

May cause drowsiness or dizziness.

Causes damage to the central nervous system and the hematopoietic system 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.

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 dust/fume/gas/mist/vapors/spray.

Wash thoroughly after handling.

Do not eat, drink or smoke when using this product.

Use only outdoors or in a well-ventilated area.

Wear protective gloves/protective clothing/eye protection/face protection.

If swallowed: Immediately call a poison center/doctor.

Specific treatment (see on this label).

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.

IF exposed or concerned: Get medical advice/attention.

Call a poison center/doctor if you feel unwell.

Get medical advice/attention if you feel unwell.

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

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Trade name: Benzene & Toluene 10% w/w in Heptane/Pentane 50:50 Matrix

(Contd. of page 2)

If skin irritation occurs: Get medical advice/attention.

If eye irritation persists: 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.

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

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



Health = 2Fire = 4Reactivity = 0

· HMIS-ratings (scale 0 - 4)



Fire = 4

- · 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: 109-66-0	Pentane	40.0%
CAS: 142-82-5	n-Heptane	40.0%
CAS: 71-43-2	Benzene	10.0%
CAS: 108-88-3	Toluene	10.0%

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: 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. If symptoms persist, consult a doctor.

- · After swallowing: If symptoms persist consult doctor.
- · Information for doctor:
- · Most important symptoms and effects, both acute and delayed No further relevant information available.

(Contd. on page 4)

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Trade name: Benzene & Toluene 10% w/w in Heptane/Pentane 50:50 Matrix

(Contd. of page 3)

· 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).

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: 109-66-0 Pentane	3000* ppn
CAS: 142-82-5 n-Heptane	500 ppm
CAS: 71-43-2 Benzene	52 ppm
CAS: 108-88-3 Toluene	67 ppm
PAC-2:	
CAS: 109-66-0 Pentane	33000*** ppn
CAS: 142-82-5 n-Heptane	830 ppm
CAS: 71-43-2 Benzene	800 ppm
CAS: 108-88-3 Toluene	560 ppm
PAC-3:	
CAS: 109-66-0 Pentane	200000*** ppm
CAS: 142-82-5 n-Heptane	5000* ppm
CAS: 71-43-2 Benzene	4000* ppm

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Trade name: Benzene & Toluene 10% w/w in Heptane/Pentane 50:50 Matrix

(Contd. of page 4) CAS: 108-88-3 Toluene 3700* ppm

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.

· Cont	· Control parameters		
· Com	ponents with limit values that require monitoring at the workplace:		
CAS	CAS: 109-66-0 Pentane		
PEL	Long-term value: 2950 mg/m³, 1000 ppm		
REL	Long-term value: 350 mg/m³, 120 ppm Ceiling limit value: 1800* mg/m³, 610* ppm *15-min		
TLV	Long-term value: 1000 ppm		
CAS	: 142-82-5 n-Heptane		
PEL	Long-term value: 2000 mg/m³, 500 ppm		
REL	Long-term value: 350 mg/m³, 85 ppm Ceiling limit value: 1800* mg/m³, 440* ppm *15-min		
TLV	Short-term value: 500 ppm Long-term value: 400 ppm		
CAS	: 71-43-2 Benzene		
PEL	Short-term value: 15* mg/m³, 5* ppm Long-term value: 3* mg/m³, 1* ppm *table Z-2 for exclusions in 29CFR1910.1028(d)		
REL	Short-term value: 1 ppm Long-term value: 0.1 ppm See Pocket Guide App. A		

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(Contd. of page 5)

TLV Short-term value: (2.5) NIC-0.1 ppm Long-term value: (0.5) NIC-0.02 ppm

Skin; BEI, A1

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

· Ingredients with biological limit values:

CAS: 71-43-2 Benzene

BEI 25 µg/g creatinine

LD50 Intraperitoneal: urine

Time: end of shift Parameter

LD50: S-Phenylmercapturic acid (background

500 μg/g creatinine

LD50 Intraperitoneal: urine

Time: end of shift

LD50: t,t-Muconic acid (background)

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)

- · 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 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.

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Trade name: Benzene & Toluene 10% w/w in Heptane/Pentane 50:50 Matrix

(Contd. of page 6)

· 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

Information on basic physical and	chemical properties
General Information	
Appearance:	** **
Form:	Liquid
Color:	Clear
Odor:	Like aromatic solvents
Odor threshold:	Not determined.
pH-value:	Not determined.
Change in condition	
Melting point/Melting range:	Undetermined.
Boiling point/Boiling range:	36 °C (96.8 °F)
Flash point:	-35 °C (-31 °F)
Flammability (solid, gaseous):	Highly flammable.
Auto igniting:	215 °C (419 °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:	1.1 Vol %

(Contd. on page 8)

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Trade name: Benzene & Toluene 10% w/w in Heptane/Pentane 50:50 Matrix

	(Contd. of pa
Upper:	8 Vol %
· Vapor pressure at 20 °C (68 °F):	573 hPa (429.8 mm Hg)
· Density at 20 °C (68 °F):	0.69718 g/cm³ (5.81797 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/wate	er): Not determined.
· Viscosity:	
Dynamic:	Not determined.
Kinematic:	Not determined.
· Solvent content:	
Organic solvents:	100.0 %
VOC content:	100.00 %
	697.2 g/l / 5.82 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)

Dermal LD50 480 mg/kg (mouse)

- · Primary irritant effect:
- · on the skin: Irritant to skin and mucous membranes.
- · on the eye: Irritating effect.
- · Sensitization: No sensitizing effects known.
- · Additional toxicological information:

The product shows the following dangers according to internally approved calculation methods for preparations: Toxic

Irritant

The product can cause inheritable damage.

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Trade name: Benzene & Toluene 10% w/w in Heptane/Pentane 50:50 Matrix

(Contd. of page 8)

· Carcinogenic categories

· Carcinogenic	categories
· IARC (Interna	tional Agency for Research on Cancer)
CAS: 71-43-2	Benzene 1
CAS: 108-88-3	3 Toluene
· NTP (Nationa	l Toxicology Program)
CAS: 71-43-2	Benzene K
,	cupational Safety & Health Administration)
CAS: 71-43-2	Benzene

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 3 (Self-assessment): extremely hazardous for water

Do not allow product to reach ground water, water course or sewage system, even in small quantities.

Danger to drinking water if even extremely 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.

UN-Number	
DOT, IMDG, IATA	UN1992
UN proper shipping name	
DOT	Flammable liquids, toxic, n.o.s. (Pentane, Benzene, n-Heptane
	Toluene)
· IMDG	FLAMMABLE LIQUID, TOXIC, N.O.S. (Pentane, Benzene, r.
	Heptane, Toluene), MARINE POLLUTANT

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Trade name: Benzene & Toluene 10% w/w in Heptane/Pentane 50:50 Matrix

IATA	FLAMMABLE LIQUID, TOXIC, N.O.S. (Pentane, Benzene, Heptane, Toluene)
Transport hazard class(es)	
DOT	
RAMMABLE LIQUE TOXIC 6	
Class Label	3 Flammable liquids 3, 6.1
IMDG &	
Class	3 Flammable liquids
Label IATA	3/6.1
Class Label	3 Flammable liquids 3 (6.1)
Packing group	0 (0.12)
DOT, IMDG, IATA	II
Environmental hazards:	Product contains environmentally hazardous substances: Heptane
Marine pollutant:	Symbol (fish and tree)
Special precautions for user Hazard identification number (Kemler code):	Warning: Flammable liquids
EMS Number:	F-E,S-D
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.
Transport/Additional information:	
DOT	
Quantity limitations	On passenger aircraft/rail: 1 L On cargo aircraft only: 60 L
IMDG	
Limited quantities (LQ)	1L

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Trade name: Benzene & Toluene 10% w/w in Heptane/Pentane 50:50 Matrix

	(Contd. of page 10
· Excepted quantities (EQ)	Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
· UN "Model Regulation":	UN 1992 FLAMMABLE LIQUID, TOXIC, N.O.S. (PENTANE, BENZENE, N-HEPTANE, TOLUENE), 3 (6.1), II

Regulatory information	
Safety, health and environmental regulations/legislation specific for Sara	the substance or mixture
Section 355 (extremely hazardous substances):	
None of the ingredients is listed.	
Section 313 (Specific toxic chemical listings):	
CAS: 71-43-2 Benzene	
CAS: 108-88-3 Toluene	
TSCA (Toxic Substances Control Act):	
Pentane	ACTIV
n-Heptane	ACTIV
Benzene	ACTIV
Toluene	ACTIV
Hazardous Air Pollutants	-
CAS: 71-43-2 Benzene	
CAS: 108-88-3 Toluene	
Proposition 65	
Chemicals known to cause cancer:	
CAS: 71-43-2 Benzene	
Chemicals known to cause reproductive toxicity for females:	
None of the ingredients is listed.	
Chemicals known to cause reproductive toxicity for males:	
CAS: 71-43-2 Benzene	
Chemicals known to cause developmental toxicity:	
CAS: 71-43-2 Benzene	
CAS: 108-88-3 Toluene	
Carcinogenic categories	
EPA (Environmental Protection Agency)	
CAS: 142-82-5 n-Heptane	D
CAS: 71-43-2 Benzene	A, K/
CAS: 108-88-3 Toluene	II
TLV (Threshold Limit Value)	-
CAS: 71-43-2 Benzene	A
CAS: 108-88-3 Toluene	A

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Trade name: Benzene & Toluene 10% w/w in Heptane/Pentane 50:50 Matrix

(Contd. of page 11)

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

CAS: 71-43-2 Benzene

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









GHS02

GHS06

GHS07

· Signal word Danger

· Hazard-determining components of labeling:

Benzene

Pentane

Toluene

n-Heptane

· Hazard statements

Highly flammable liquid and vapor.

Toxic in contact with skin.

Causes skin irritation.

Causes serious eye irritation.

May cause genetic defects.

May cause cancer.

Suspected of damaging fertility or the unborn child.

May cause drowsiness or dizziness.

Causes damage to the central nervous system and the hematopoietic system 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.

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 dust/fume/gas/mist/vapors/spray.

Wash thoroughly after handling.

Do not eat, drink or smoke when using this product.

Use only outdoors or in a well-ventilated area.

Wear protective gloves/protective clothing/eye protection/face protection.

If swallowed: Immediately call a poison center/doctor.

Specific treatment (see on this label).

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.

IF exposed or concerned: Get medical advice/attention.

Call a poison center/doctor if you feel unwell.

Get medical advice/attention if you feel unwell.

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

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Trade name: Benzene & Toluene 10% w/w in Heptane/Pentane 50:50 Matrix

(Contd. of page 12)

If skin irritation occurs: Get medical advice/attention.

If eye irritation persists: 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.

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, 05/21/2024: Reviewed SDS for accuracy. MH/STN

Revision 0.0, 03-26-2015; Creation date for SDS. STN

05/22/2024

· 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 - Dermal 3: Acute toxicity - Category 3

Skin Irritation 2: Skin corrosion/irritation - Category 2

Eye Irritation 2A: Serious eye damage/eye irritation – Category 2A

Germ Cell Mutagenicity 1B: Germ cell mutagenicity - Category 1B

Carcinogenicity 1A: Carcinogenicity – Category 1A
Toxic to Reproduction 2: Reproductive toxicity – Category 2

Specific Target Organ Toxicity - Single Exposure 3: Specific target organ toxicity (single exposure) - Category 3

Specific Target Organ Toxicity - Repeated Exposure 1: Specific target organ toxicity (repeated exposure) - Category 1

Aspiration Hazard 1: Aspiration hazard - Category 1

* * Data compared to the previous version altered.

US