

Safety Data Sheet

acc. to OSHA HCS

Printing date 12/07/2017

Reviewed on 12/07/2017

1 Identification

- **Product identifier**
- **Trade name:** Benzene 3%, Xylenes 4.5%
Ethylbenzene 0.5% in Toluene
- **Article number:** MOB094
- **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 sherman@aquasolutions.org
- **Emergency telephone number:**
Chemtrec: 800-424-9300
Canutec: 613-996-6666



2 Hazard(s) identification

- **Classification of the substance or mixture**



GHS08 Health hazard

- Muta. 1B* H340 May cause genetic defects.
Carc. 1A H350 May cause cancer.
Repr. 2 H361 Suspected of damaging fertility or the unborn child.
STOT RE 1 H372 Causes damage to organs through prolonged or repeated exposure.
Asp. Tox. 1 H304 May be fatal if swallowed and enters airways.



GHS07

- Acute Tox. 4* H312 Harmful in contact with skin.
Skin Irrit. 2 H315 Causes skin irritation.
STOT SE 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**



GHS07 GHS08

- **Signal word** *Danger*
- **Hazard-determining components of labeling:**
Toluene
Benzene

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Trade name: Benzene 3%, Xylenes 4.5%
Ethylbenzene 0.5% in Toluene

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*m-xylene**p-Xylene**Ethylbenzene, Anhydrous, 99.8%**o-Xylene*

- **Hazard statements**

*Harmful in contact with skin.**Causes skin irritation.**May cause genetic defects.**May cause cancer.**Suspected of damaging fertility or the unborn child.**May cause drowsiness or dizziness.**Causes 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.**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.**If on skin: Wash with plenty of water.**IF INHALED: Remove person to fresh air and keep comfortable for breathing.**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.**Specific treatment (see on this label).**Do NOT induce vomiting.**If skin irritation occurs: Get medical advice/attention.**Take off contaminated clothing and wash it before reuse.**Store in a well-ventilated place. Keep container tightly closed.**Store locked up.**Dispose of contents/container in accordance with local/regional/national/international regulations.*

- **Classification system:**

- **NFPA ratings (scale 0 - 4)**

*Health = 1**Fire = 0**Reactivity = 0*

- **HMIS-ratings (scale 0 - 4)**

*Health = 2**Fire = 3**Reactivity = 0*

- **Other hazards**

- **Results of PBT and vPvB assessment**

- **PBT:** Not applicable.

- **vPvB:** Not applicable.

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3 Composition/information on ingredients

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

- **Dangerous components:**

CAS: 108-88-3	Toluene	92.0%
CAS: 71-43-2	Benzene	3.0%
CAS: 108-38-3	m-xylene	2.0%
CAS: 106-42-3	p-Xylene	1.5%
CAS: 95-47-6	o-Xylene	1.0%
CAS: 100-41-4	Ethylbenzene, Anhydrous, 99.8%	0.5%

4 First-aid measures

- **Description of first aid measures**
- **General information:**
Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.
- **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.
- **After swallowing:** If symptoms persist consult 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:** Use fire fighting measures that suit the environment.
- **Special hazards arising from the substance or mixture** No further relevant information available.
- **Advice for firefighters**
- **Protective equipment:** No special measures required.

6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures** Not required.
- **Environmental precautions:** No special measures required.
- **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 item 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.

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· Protective Action Criteria for Chemicals

· PAC-1:

CAS: 108-88-3	Toluene	67 ppm
CAS: 71-43-2	Benzene	52 ppm
CAS: 108-38-3	m-xylene	130 ppm
CAS: 100-41-4	Ethylbenzene, Anhydrous, 99.8%	33 ppm

· PAC-2:

CAS: 108-88-3	Toluene	560 ppm
CAS: 71-43-2	Benzene	800 ppm
CAS: 108-38-3	m-xylene	920 ppm
CAS: 100-41-4	Ethylbenzene, Anhydrous, 99.8%	1100* ppm

· PAC-3:

CAS: 108-88-3	Toluene	3700* ppm
CAS: 71-43-2	Benzene	4000* ppm
CAS: 108-38-3	m-xylene	2500* ppm
CAS: 100-41-4	Ethylbenzene, Anhydrous, 99.8%	1800* ppm

7 Handling and storage

- **Handling:**
- **Precautions for safe handling** Ensure good ventilation/exhaustion at the workplace.
- **Information about protection against explosions and fires:** No special measures required.
- **Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:** No special requirements.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:** None.
- **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 item 7.
- **Control parameters**

· Components with limit values that require monitoring at the workplace:

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/m ³ , 150 ppm Long-term value: 375 mg/m ³ , 100 ppm
TLV	Long-term value: 75 mg/m ³ , 20 ppm BEI

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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

TLV Short-term value: 8 mg/m³, 2.5 ppm
Long-term value: 1.6 mg/m³, 0.5 ppm
Skin; BEI

CAS: 108-38-3 m-xylene

PEL Long-term value: 435 mg/m³, 100 ppm

REL Short-term value: 655 mg/m³, 150 ppm
Long-term value: 435 mg/m³, 100 ppm

TLV Short-term value: 651 mg/m³, 150 ppm
Long-term value: 434 mg/m³, 100 ppm
BEI

CAS: 106-42-3 p-Xylene

PEL Long-term value: 435 mg/m³, 100 ppm

REL Short-term value: 655 mg/m³, 150 ppm
Long-term value: 435 mg/m³, 100 ppm

TLV Short-term value: 651 mg/m³, 150 ppm
Long-term value: 434 mg/m³, 100 ppm
BEI

CAS: 95-47-6 o-Xylene

PEL Long-term value: 435 mg/m³, 100 ppm

REL Short-term value: 655 mg/m³, 150 ppm
Long-term value: 435 mg/m³, 100 ppm

TLV Short-term value: 651 mg/m³, 150 ppm
Long-term value: 434 mg/m³, 100 ppm
BEI

CAS: 100-41-4 Ethylbenzene, Anhydrous, 99.8%

PEL Long-term value: 435 mg/m³, 100 ppm

REL Short-term value: 545 mg/m³, 125 ppm
Long-term value: 435 mg/m³, 100 ppm

TLV Long-term value: 87 mg/m³, 20 ppm
BEI

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· Ingredients with biological limit values:

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: 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: 108-38-3 m-xylene

BEI 1.5 g/g creatinine
LD50 Intraperitoneal: urine
Time: end of shift
LD50: Methylhippuric acids

CAS: 106-42-3 p-Xylene

BEI 1.5 g/g creatinine
LD50 Intraperitoneal: urine
Time: end of shift
LD50: Methylhippuric acids

CAS: 95-47-6 o-Xylene

BEI 1.5 g/g creatinine
LD50 Intraperitoneal: urine
Time: end of shift
LD50: Methylhippuric acids

CAS: 100-41-4 Ethylbenzene, Anhydrous, 99.8%

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**Trade name: Benzene 3%, Xylenes 4.5%
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BEI	0.7 g/g creatinine LD50 Intraperitoneal: urine Time: end of shift at end of workweek LD50: Sum of mandelic acid and phenylglyoxylic acid (nonspecific, semi-quantitative)
-	LD50 Intraperitoneal: end-exhaled air Time: not critical LD50: Ethyl benzene (semi-quantitative)

· **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 skin.
- 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.

· **Eye protection:**



Tightly sealed goggles

· **Body protection:** Protective work clothing

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9 Physical and chemical properties

· Information on basic physical and chemical properties	
· General Information	
· Appearance:	
Form:	Liquid
Color:	Clear
· Odor:	Distinct
· Odor threshold:	Not determined.
· pH-value:	Not determined.
· Change in condition	
Melting point/Melting range:	Undetermined.
Boiling point/Boiling range:	Undetermined.
· Flash point:	Not applicable.
· Flammability (solid, gaseous):	Not applicable.
· Ignition temperature:	535 °C (995 °F)
· Decomposition temperature:	Not determined.
· Auto igniting:	Product is not selfigniting.
· Danger of explosion:	Product does not present an explosion hazard.
· Explosion limits:	
Lower:	1.2 Vol %
Upper:	7 Vol %
· Vapor pressure at 20 °C (68 °F):	29 hPa (21.8 mm Hg)
· Density at 20 °C (68 °F):	0.84641 g/cm ³ (7.06329 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/water): Not determined.	
· Viscosity:	
Dynamic:	Not determined.
Kinematic:	Not determined.
· Solvent content:	
Organic solvents:	100.0 %
VOC content:	100.00 %
	846.4 g/l / 7.06 lb/gl
Solids content:	0.0 %
· Other information	No further relevant information available.

10 Stability and reactivity

· **Reactivity** No further relevant information available.

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- **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	5,073 mg/kg (rat)
Dermal	LD50	1,544 mg/kg
Inhalative	LC50/4 h	244 mg/l

CAS: 108-88-3 Toluene

Oral	LD50	5,000 mg/kg (rat)
Dermal	LD50	12,124 mg/kg (rabbit)
Inhalative	LC50/4 h	5,320 mg/l (mouse)

CAS: 71-43-2 Benzene

Dermal	LD50	5 mg/kg (ATE)
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- **Primary irritant effect:**
- **on the skin:** Irritant to skin and mucous membranes.
- **on the eye:** No irritating effect.
- **Sensitization:** No sensitizing effects known.
- **Additional toxicological information:**
 The product shows the following dangers according to internally approved calculation methods for preparations:
 Harmful
 Irritant
 The product can cause inheritable damage.

- **Carcinogenic categories**

- **IARC (International Agency for Research on Cancer)**

CAS: 108-88-3	Toluene	3
CAS: 71-43-2	Benzene	1
CAS: 108-38-3	m-xylene	3
CAS: 106-42-3	p-Xylene	3
CAS: 95-47-6	o-Xylene	3
CAS: 100-41-4	Ethylbenzene, Anhydrous, 99.8%	2B

- **NTP (National Toxicology Program)**

CAS: 71-43-2	Benzene	K
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- **OSHA-Ca (Occupational Safety & Health Administration)**

CAS: 71-43-2	Benzene	
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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:** Not known to be hazardous to water.
- **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

- | | |
|---|--|
| <ul style="list-style-type: none"> · UN-Number · DOT, IMDG, IATA | <p style="margin-left: 20px;">UN1993</p> |
| <ul style="list-style-type: none"> · UN proper shipping name · DOT · IMDG, IATA | <p style="margin-left: 20px;">Flammable liquids, n.o.s. (Benzene, Ethylbenzene, Toluene, Xylenes)
FLAMMABLE LIQUID, N.O.S. (BENZENE, ETHYLBENZENE, TOLUENE, XYLENES)</p> |
| <ul style="list-style-type: none"> · Transport hazard class(es) · DOT | <p style="margin-left: 20px;"></p> |
| <ul style="list-style-type: none"> · Class · Label | <p style="margin-left: 20px;">3 Flammable liquids
3</p> |
| <ul style="list-style-type: none"> · IMDG, IATA | <p style="margin-left: 20px;"></p> |
| <ul style="list-style-type: none"> · Class · Label | <p style="margin-left: 20px;">3 Flammable liquids
3</p> |

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· Packing group	II
· DOT, IMDG, IATA	II
· Environmental hazards:	
· Marine pollutant:	No
· Special precautions for user	Warning: Flammable liquids
· Danger code (Kemler):	33
· EMS Number:	F-E, S-E
· Stowage Category	B
· Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	Not applicable.
· UN "Model Regulation":	UN 1993 FLAMMABLE LIQUIDS, N.O.S. (BENZENE, ETHYLBENZENE, TOLUENE, XYLENES), 3, II

15 Regulatory information

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

· **Section 355 (extremely hazardous substances):**

None of the ingredients is listed.

· **Section 313 (Specific toxic chemical listings):**

All ingredients are listed.

· **TSCA (Toxic Substances Control Act):**

Toluene

Benzene

m-xylene

p-Xylene

o-Xylene

Ethylbenzene, Anhydrous, 99.8%

· **Proposition 65**

· **Chemicals known to cause cancer:**

CAS: 71-43-2 Benzene

CAS: 100-41-4 Ethylbenzene, Anhydrous, 99.8%

· **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: 108-88-3 Toluene

CAS: 71-43-2 Benzene

· **Carcinogenic categories**

· **EPA (Environmental Protection Agency)**

CAS: 108-88-3 Toluene

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CAS: 71-43-2	Benzene	A, K/L
CAS: 108-38-3	m-xylene	I
CAS: 106-42-3	p-Xylene	I
CAS: 95-47-6	o-Xylene	I
CAS: 100-41-4	Ethylbenzene, Anhydrous, 99.8%	D

· **TLV (Threshold Limit Value established by ACGIH)**

CAS: 108-88-3	Toluene	A4
CAS: 71-43-2	Benzene	A1
CAS: 108-38-3	m-xylene	A4
CAS: 106-42-3	p-Xylene	A4
CAS: 95-47-6	o-Xylene	A4
CAS: 100-41-4	Ethylbenzene, Anhydrous, 99.8%	A3

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

CAS: 71-43-2	Benzene
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· **GHS label elements** The product is classified and labeled according to the Globally Harmonized System (GHS).

· **Hazard pictograms**



GHS07 GHS08

· **Signal word** *Danger*

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

Toluene

Benzene

m-xylene

p-Xylene

Ethylbenzene, Anhydrous, 99.8%

o-Xylene

· **Hazard statements**

Harmful in contact with skin.

Causes skin irritation.

May cause genetic defects.

May cause cancer.

Suspected of damaging fertility or the unborn child.

May cause drowsiness or dizziness.

Causes 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.

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.

If on skin: Wash with plenty of water.

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IF INHALED: Remove person to fresh air and keep comfortable for breathing.

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.

Specific treatment (see on this label).

Do NOT induce vomiting.

If skin irritation occurs: Get medical advice/attention.

Take off contaminated clothing and wash it before reuse.

Store in a well-ventilated place. Keep container tightly closed.

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**

12-07-2017: review SDS for accuracy. STN

Revision 0.0, 06-23-2015: Creation date for SDS. STN

12/07/2017 / -

· **Abbreviations and acronyms:**

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

ACGIH: American Conference of Governmental Industrial Hygienists

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

Acute Tox. 4: Acute toxicity – Category 4

Skin Irrit. 2: Skin corrosion/irritation – Category 2

Muta. 1B: Germ cell mutagenicity – Category 1B

Carc. 1A: Carcinogenicity – Category 1A

Repr. 2: Reproductive toxicity – Category 2

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STOT SE 3: Specific target organ toxicity (single exposure) – Category 3
STOT RE 1: Specific target organ toxicity (repeated exposure) – Category 1
Asp. Tox. 1: Aspiration hazard – Category 1

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