Printing date 07/24/2024 Reviewed on 07/24/2024

1 Identification

· Product identifier

· Trade name: Acid Wash Color Std, #14 Prepared to ASTM D848-18

· Article number: 015014

· Details of the supplier of the safety data sheet

· Manufacturer/Supplier: Aqua Solutions, Inc. 6913 Highway 225 DEER PARK, TX 77536 USA800-256-2586

· 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



GHS06 Skull and crossbones

Acute Toxicity - Inhalation 2 H330 Fatal if inhaled.



GHS08 Health hazard

Sensitization - Respiratory 1 H334 May cause allergy or asthma symptoms or

breathing difficulties if inhaled.

Germ Cell Mutagenicity 1B H340 May cause genetic defects.

Carcinogenicity 1A H350 May cause cancer.

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

Specific Target Organ Toxicity - Repeated Exposure 1 H372 Causes damage to the respiratory system through prolonged or repeated exposure.



GHS05 Corrosion

Eye Damage 1 H318 Causes serious eye damage.



GHS07

Skin Irritation 2 H315 Causes skin irritation.

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

· Label elements

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

(Contd. on page 2)



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(Contd. of page 1)

· Hazard pictograms







GHS05

GHS06

· Signal word Danger

· Hazard-determining components of labeling:

Potassium Dichromate

· Hazard statements

Fatal if inhaled.

Causes skin irritation.

Causes serious eye damage.

May cause allergy or asthma symptoms or breathing difficulties if inhaled.

May cause an allergic skin reaction.

May cause genetic defects.

May cause cancer.

May damage fertility or the unborn child.

Causes damage to the respiratory system through prolonged or repeated exposure.

· 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.

Contaminated work clothing must not be allowed out of the workplace.

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

[In case of inadequate ventilation] wear respiratory protection.

If on skin: Wash with plenty of water.

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 is urgent (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.

If experiencing respiratory symptoms: Call a poison center/doctor.

Wash contaminated clothing 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 = 3Fire = 3

Reactivity = 0

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(Contd. of page 2)

The substance possesses oxidizing properties.

· HMIS-ratings (scale 0 - 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: 7778-50-9 Potassium Dichromate	4.848%
· Table of Nonhazardous Ingredients	
CAS: 7732-18-5 Water	95.152%

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

Remove breathing apparatus only after contaminated clothing have been completely removed.

In case of irregular breathing or respiratory arrest provide artificial respiration.

· After inhalation:

Supply fresh air or oxygen; call for 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: 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

During heating or in case of fire poisonous gases are produced.

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(Contd. of page 3)

- · 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

· Protective Action Criteria for Chemicals	
· PAC-1:	
CAS: 7778-50-9 Potassium Dichromate	0.42 mg/m^3
· PAC-2:	
CAS: 7778-50-9 Potassium Dichromate	0.28 ppm
· PAC-3:	
CAS: 7778-50-9 Potassium Dichromate	1.8 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 respiratory protective device available.
- · 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: Keep receptacle tightly sealed.
- · 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 5)

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Trade name: Acid Wash Color Std, #14 Prepared to ASTM D848-18

(Contd. of page 4)

· Control parameters

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

CAS: 7778-50-9 Potassium Dichromate

PEL Long-term value: 0.005* mg/m³

Ceiling limit value: 0.1** mg/m³

*as Cr(VI) **as CrO3; see 29 CFR 1910.1026

REL Long-term value: 0.0002 mg/m³

as Cr; See Pocket Guide Apps. A and C

TLV Short-term value: 0.0005 mg/m³ Long-term value: 0.0002 mg/m³

as Cr(VI); A1; inhalable, Skin; BEI, DSEN, RSEN

· Ingredients with biological limit values:

CAS: 7778-50-9 Potassium Dichromate

BEI 25 μg/L

LD50 Intraperitoneal: urine

Time: end of shift at end of workweek

LD50: Total chromium (fume)

10 μg/L

LD50 Intraperitoneal: urine Time: increase during shift LD50: Total chromium (fume)

- · 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.

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.

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· 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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	. Information on basic physical and chan

· Information on bas	c physical and	chemical properties
· General Informatio	$\boldsymbol{\imath}$	

Annogranos

· Appearance:

Form: Liquid
Color: Orange

Odor: Odorless

Odor threshold: Not determined.

· pH-value: Not determined.

· Change in condition

Melting point/Melting range: $0 \, ^{\circ}C \, (32 \, ^{\circ}F)$ Boiling point/Boiling range: $100 \, ^{\circ}C \, (212 \, ^{\circ}F)$

· Flash point: Not applicable.

· Flammability (solid, gaseous): Not applicable.

· Decomposition temperature: Not determined.

• Ignition temperature: Product is not selfigniting.

• Danger of explosion: Product does not present an explosion hazard.

· Explosion limits:

Lower:Not determined.Upper:Not determined.

· Vapor pressure at 20 °C (68 °F): 23 hPa (17.3 mm Hg)

• **Density at 20** °**C** (**68** °**F**): 1.03132 g/cm³ (8.60637 lbs/gal)

Relative density
 Vapor density
 Evaporation rate
 Not determined.
 Not determined.

· Solubility in / Miscibility with

Water: Fully miscible.

· Partition coefficient (n-octanol/water): Not determined.

· Viscosity:

Dynamic: Not determined.

Kinematic: Not determined.

(Contd. on page 7)

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Trade name: Acid Wash Color Std, #14 Prepared to ASTM D848-18

		(Contd. of page 6
· Solvent content:		
Water:	95.2 %	
VOC content:	0.00 %	
	0.0 g/l / 0.00 lb/gal	
Solids content:	4.8 %	
· 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:

\cdot LD/LC50 values that are rele	evant for class	ification:
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ATE (Acute Toxicity Estimate) Oral LD50 2,063 mg/kg

Dermal LD50 22,689 mg/kg Inhalative LC50/4h 1.03 mg/l

- · Primary irritant effect:
- · on the skin: Irritant to skin and mucous membranes.
- · on the eye: Strong irritant with the danger of severe eye injury.
- · Sensitization:

Sensitization possible through inhalation.

Sensitization possible through skin contact.

· Additional toxicological information:

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

Toxic

Harmful

Irritant

Very toxic

The product can cause inheritable damage.

· Carcinogenic categories

· IARC (International A	gency for	Research on	Cancer)
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CAS: 7778-50-9 Potassium Dichromate

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· NTP (National Toxicology Program) CAS: 7778-50-9 Potassium Dichromate

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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 3 (Self-assessment): extremely hazardous for water

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

Must not reach bodies of water or drainage ditch undiluted or unneutralized.

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.
- · Recommended cleansing agent: Water, if necessary with cleansing agents.

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14 Trans	nort in	torma	ากท
I I I I COLOS	DOI'U UIU	OI III COL	TO II

· UN-Number · DOT, IMDG, IATA	UN3139
· UN proper shipping name · DOT · IMDG	Oxidizing liquid, n.o.s. (Potassium Dichromate) OXIDIZING LIQUID, N.O.S. (Potassium Dichromate), MARINE POLLUTANT
· IATA	OXIDIZING LIQUID, N.O.S. (Potassium Dichromate)

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	(Contd. of pag
Transport hazard class(es)	
DOT	
8	
OXIDIZER	
51	
Class	5.1 Oxidizing substances
Label	5.1
IMDG	
2	
Class	5.1 Oxidizing substances
Label	5.1
IATA	
A	
Class	5.1 Oxidizing substances
Label	5.1
Packing group	
DOT, IMDG, IATA	III
Environmental hazards:	Product contains environmentally hazardous substance
	Potassium Dichromate Yes
M	
Marine pollutant:	
-	Symbol (fish and tree)
Marine pollutant: Special precautions for user Hazard identification number (Kemler	Symbol (fish and tree) Warning: Oxidizing substances
Special precautions for user Hazard identification number (Kemler	Symbol (fish and tree) Warning: Oxidizing substances r code): 51
-	Symbol (fish and tree) Warning: Oxidizing substances
Special precautions for user Hazard identification number (Kemler EMS Number:	Symbol (fish and tree) Warning: Oxidizing substances r code): 51 F-A,S-Q
Special precautions for user Hazard identification number (Kemler EMS Number: Stowage Category	Symbol (fish and tree) Warning: Oxidizing substances r code): 51 F-A,S-Q B
Special precautions for user Hazard identification number (Kemler EMS Number: Stowage Category	Symbol (fish and tree) Warning: Oxidizing substances r code): 51 F-A,S-Q B SG38 Stow "separated from" SGG2-ammonium compounds.
Special precautions for user Hazard identification number (Kemler EMS Number: Stowage Category	Symbol (fish and tree) Warning: Oxidizing substances r code): 51 F-A,S-Q B SG38 Stow "separated from" SGG2-ammonium compounds. SG49 Stow "separated from" SGG6-cyanides SG60 Stow "separated from" SGG16-peroxides
Special precautions for user Hazard identification number (Kemler EMS Number: Stowage Category Segregation Code Transport in bulk according to Annex	Symbol (fish and tree) Warning: Oxidizing substances r code): 51 F-A,S-Q B SG38 Stow "separated from" SGG2-ammonium compounds. SG49 Stow "separated from" SGG6-cyanides SG60 Stow "separated from" SGG16-peroxides
Special precautions for user Hazard identification number (Kemler EMS Number: Stowage Category Segregation Code	Symbol (fish and tree) Warning: Oxidizing substances r code): 51 F-A,S-Q B SG38 Stow "separated from" SGG2-ammonium compounds. SG49 Stow "separated from" SGG6-cyanides SG60 Stow "separated from" SGG16-peroxides II of
Special precautions for user Hazard identification number (Kemler EMS Number: Stowage Category Segregation Code Transport in bulk according to Annex MARPOL73/78 and the IBC Code	Symbol (fish and tree) Warning: Oxidizing substances r code): 51 F-A,S-Q B SG38 Stow "separated from" SGG2-ammonium compounds. SG49 Stow "separated from" SGG6-cyanides SG60 Stow "separated from" SGG16-peroxides II of
Special precautions for user Hazard identification number (Kemler EMS Number: Stowage Category Segregation Code Transport in bulk according to Annex MARPOL73/78 and the IBC Code Transport/Additional information:	Symbol (fish and tree) Warning: Oxidizing substances r code): 51 F-A,S-Q B SG38 Stow "separated from" SGG2-ammonium compounds. SG49 Stow "separated from" SGG6-cyanides SG60 Stow "separated from" SGG16-peroxides II of
Special precautions for user Hazard identification number (Kemler EMS Number: Stowage Category Segregation Code Transport in bulk according to Annex MARPOL73/78 and the IBC Code Transport/Additional information: IMDG Limited quantities (LQ)	Symbol (fish and tree) Warning: Oxidizing substances r code): 51 F-A,S-Q B SG38 Stow "separated from" SGG2-ammonium compounds. SG49 Stow "separated from" SGG6-cyanides SG60 Stow "separated from" SGG16-peroxides II of Not applicable.
Special precautions for user Hazard identification number (Kemler EMS Number: Stowage Category Segregation Code Transport in bulk according to Annex MARPOL73/78 and the IBC Code Transport/Additional information:	Symbol (fish and tree) Warning: Oxidizing substances r code): 51 F-A,S-Q B SG38 Stow "separated from" SGG2-ammonium compounds. SG49 Stow "separated from" SGG6-cyanides SG60 Stow "separated from" SGG16-peroxides II of Not applicable.

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· UN "Model Regulation":

UN 3139 OXIDIZING LIQUID, N.O.S. (POTASSIUM

DICHROMATE), 5.1, III

15 Regulatory information

- · Safety, health and environmental regulations/legislation specific for the substance or mixture
- · Section 355 (extremely hazardous substances):

None of the ingredients is listed.

· Section 313 (Specific toxic chemical listings):

CAS: 7778-50-9 Potassium Dichromate

· TSCA (Toxic Substances Control Act):

Water *ACTIVE* **ACTIVE** Potassium Dichromate

· Hazardous Air Pollutants

CAS: 7778-50-9 Potassium Dichromate

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

CAS: 7778-50-9 Potassium Dichromate

· Chemicals known to cause reproductive toxicity for females:

CAS: 7778-50-9 Potassium Dichromate

· Chemicals known to cause reproductive toxicity for males:

CAS: 7778-50-9 Potassium Dichromate

· Chemicals known to cause developmental toxicity:

CAS: 7778-50-9 Potassium Dichromate

- · Carcinogenic categories
- · EPA (Environmental Protection Agency)

CAS: 7778-50-9 Potassium Dichromate

A(inh), D(oral), K/L(inh), CBD(oral)

· TLV (Threshold Limit Value)

CAS: 7778-50-9 Potassium Dichromate

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

CAS: 7778-50-9 Potassium Dichromate

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







GHS05 GHS06

GHS08

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

Potassium Dichromate

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· Hazard statements

Fatal if inhaled.

Causes skin irritation.

Causes serious eye damage.

May cause allergy or asthma symptoms or breathing difficulties if inhaled.

May cause an allergic skin reaction.

May cause genetic defects.

May cause cancer.

May damage fertility or the unborn child.

Causes damage to the respiratory system through prolonged or repeated exposure.

· 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.

Contaminated work clothing must not be allowed out of the workplace.

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

[In case of inadequate ventilation] wear respiratory protection.

If on skin: Wash with plenty of water.

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 is urgent (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.

If experiencing respiratory symptoms: Call a poison center/doctor.

Wash contaminated clothing 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:

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Trade name: Acid Wash Color Std, #14 Prepared to ASTM D848-18

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· Date of preparation / last revision

Revision 1.2 07/24/2024: Reviewed SDS for accuracy. MH/STN

Creation date for SDS 07-31-2015. STN

07/24/2024 / 1.0

· 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

Acute Toxicity - Inhalation 2: Acute toxicity - Category 2

Skin Irritation 2: Skin corrosion/irritation – Category 2

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

Sensitization - Respiratory 1: Respiratory sensitisation - Category 1

Sensitization - Skin 1: Skin sensitisation - Category 1

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

Carcinogenicity 1A: Carcinogenicity - Category 1A

Toxic to Reproduction 1B: Reproductive toxicity – Category 1B

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

* * Data compared to the previous version altered.

US-