Printing date 07/25/2024

*

Reviewed on 07/25/2024

Product identifier	
Trade name: <u>Acid Wash Color</u> Stock Standard 'F'	
Article number: EBRF	
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	AQUA SOLUTIONS
Information department: Technical Coordinator Sherman Nelson shermann@aquasolutions.org Emergency telephone number: Chemtrec: 800-424-9300 Canutec: 613-996-6666	
Hazard(s) identification	
Classification of the substance or mixture	
<i>Acute Toxicity - Inhalation 2</i>	H330 Fatal if inhaled.
GHS08 Health hazard	
Sensitization - Respiratory 1	
	H334 May cause allergy or asthma symptoms o breathing difficulties if inhaled. H340 May cause genetic defects.
Sensitization - Respiratory 1 Germ Cell Mutagenicity 1B Carcinogenicity 1A	breathing difficulties if inhaled. H340 May cause genetic defects. H350 May cause cancer.
Sensitization - Respiratory 1 Germ Cell Mutagenicity 1B Carcinogenicity 1A Toxic to Reproduction 1B	breathing difficulties if inhaled. H340 May cause genetic defects. H350 May cause cancer. H360 May damage fertility or the unborn child.
Sensitization - Respiratory 1 Germ Cell Mutagenicity 1B Carcinogenicity 1A Toxic to Reproduction 1B	breathing difficulties if inhaled. H340 May cause genetic defects. H350 May cause cancer. H360 May damage fertility or the unborn child.
Sensitization - Respiratory 1 Germ Cell Mutagenicity 1B Carcinogenicity 1A Toxic to Reproduction 1B	breathing difficulties if inhaled. H340 May cause genetic defects. H350 May cause cancer. H360 May damage fertility or the unborn child. 1 H372 Causes damage to the respiratory system throug
Sensitization - Respiratory 1 Germ Cell Mutagenicity 1B Carcinogenicity 1A Toxic to Reproduction 1B	 H340 May cause genetic defects. H350 May cause cancer. H360 May damage fertility or the unborn child. 1 H372 Causes damage to the respiratory system throug
Sensitization - Respiratory 1 Germ Cell Mutagenicity 1B Carcinogenicity 1A Toxic to Reproduction 1B Specific Target Organ Toxicity - Repeated Exposure	breathing difficulties if inhaled. H340 May cause genetic defects. H350 May cause cancer. H360 May damage fertility or the unborn child. 1 H372 Causes damage to the respiratory system throug
Sensitization - Respiratory 1 Germ Cell Mutagenicity 1B Carcinogenicity 1A Toxic to Reproduction 1B Specific Target Organ Toxicity - Repeated Exposure GHS05 Corrosion Eye Damage 1	breathing difficulties if inhaled. H340 May cause genetic defects. H350 May cause cancer. H360 May damage fertility or the unborn child. H372 Causes damage to the respiratory system throug prolonged or repeated exposure.

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4.848%

95.152%

The substance possesses oxidizing properties.

· HMIS-ratings (scale 0 - 4) HEALTH

2 Health = 23 Fire = 3**REACTIVITY O** Reactivity = 0

· Other hazards

FIRE

· 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

· Table of Nonhazardous Ingredients

CAS: 7732-18-5 Water

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.

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 eve contact: Rinse opened eve 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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Safety Data Sheet acc. to OSHA HCS

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• 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: 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.

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	ponents with limit values that require monitoring at the workplace:
	5: 7778-50-9 Potassium Dichromate
PEL	Long-term value: $0.005* \text{ mg/m}^3$
	Ceiling limit value: 0.1^{**} mg/m ³
	*as Cr(VI) **as CrO3; see 29 CFR 1910.1026
REI	Long-term value: 0.0002 mg/m ³
	as Cr; See Pocket Guide Apps. A and C
TLV	Short-term value: 0.0005 mg/m ³
	Long-term value: 0.0002 mg/m ³
	as Cr(VI); A1; inhalable, Skin; BEI, DSEN, RSEN
Ing	edients with biological limit values:
-	T: 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)
Imm Was Stor Avo Avo Bre In c	p away from foodstuffs, beverages and feed. ediately remove all soiled and contaminated clothing. h hands before breaks and at the end of work. e protective clothing separately. id contact with the skin. id contact with the eyes and skin. uthing equipment: ase of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure us iratory protective device that is independent of circulating air. ection of hands:
en.	Protective gloves
Due	glove material has to be impermeable and resistant to the product/ the substance/ the preparation. to missing tests no recommendation to the glove material can be given for the product/ the preparation/ th
	nical mixture. ction of the glove material on consideration of the penetration times, rates of diffusion and the degradation erial of gloves

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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

Information on basic physical and o	chemical properties	
General Information	• •	
Appearance:		
Form:	Liquid	
Color:	Orange	
Odor:	Odorless	
Odor threshold:	Not determined.	
pH-value:	Not determined.	
Change in condition		
Melting point/Melting range:	0 °C (32 °F)	
Boiling point/Boiling range:	100 °C (212 °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/cm ³ (8.60637 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.	

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		(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:

· LD/LC50 values that are relevant for classification:

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

CAS: 7778-50-9 Potassium Dichromate • NTP (National Toxicology Program)	1
· NTP (National Toxicology Program)	
CAS: 7778-50-9 Potassium Dichromate	K
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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.

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

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	(Contd. of pag
Transport hazard class(es)	
DOT	
OXIDIZER	
51	
Class	5.1 Oxidizing substances
Label	5.1
IMDG	
Class	5.1 Oxidizing substances
Label	5.1
IATA	
Class Label	5.1 Oxidizing substances 5.1
	5.1
	111
Packing group DOT, IMDG, IATA Environmental hazards:	III Product contains environmentally hazardous substance
DOT, IMDG, IATA	Product contains environmentally hazardous substance Potassium Dichromate Yes
DOT, IMDG, IATA Environmental hazards:	Product contains environmentally hazardous substance Potassium Dichromate
DOT, IMDG, IATA Environmental hazards: Marine pollutant: Special precautions for user	Product contains environmentally hazardous substance Potassium Dichromate Yes Symbol (fish and tree) Warning: Oxidizing substances
DOT, IMDG, IATA Environmental hazards: Marine pollutant: Special precautions for user Hazard identification number (Kemler co	Product contains environmentally hazardous substance Potassium Dichromate Yes Symbol (fish and tree) Warning: Oxidizing substances de): 90
DOT, IMDG, IATA Environmental hazards: Marine pollutant: Special precautions for user Hazard identification number (Kemler co EMS Number:	Product contains environmentally hazardous substance Potassium Dichromate Yes Symbol (fish and tree) Warning: Oxidizing substances de): 90 F-A,S-Q
DOT, IMDG, IATA Environmental hazards: Marine pollutant: Special precautions for user Hazard identification number (Kemler co EMS Number: Stowage Category	Product contains environmentally hazardous substance Potassium Dichromate Yes Symbol (fish and tree) Warning: Oxidizing substances de): 90 F-A,S-Q B
DOT, IMDG, IATA Environmental hazards: Marine pollutant: Special precautions for user Hazard identification number (Kemler co EMS Number:	Product contains environmentally hazardous substance Potassium Dichromate Yes Symbol (fish and tree) Warning: Oxidizing substances de): 90 F-A,S-Q B SG38 Stow "separated from" SGG2-ammonium compounds.
DOT, IMDG, IATA Environmental hazards: Marine pollutant: Special precautions for user Hazard identification number (Kemler co EMS Number: Stowage Category	Product contains environmentally hazardous substance Potassium Dichromate Yes Symbol (fish and tree) Warning: Oxidizing substances de): 90 F-A,S-Q B
DOT, IMDG, IATA Environmental hazards: Marine pollutant: Special precautions for user Hazard identification number (Kemler co EMS Number: Stowage Category Segregation Code Transport in bulk according to Annex II of	Product contains environmentally hazardous substance Potassium Dichromate Yes Symbol (fish and tree) Warning: Oxidizing substances de): 90 F-A,S-Q B SG38 Stow "separated from" SGG2-ammonium compounds. SG49 Stow "separated from" SGG6-cyanides SG60 Stow "separated from" SGG16-peroxides
DOT, IMDG, IATA Environmental hazards: Marine pollutant: Special precautions for user Hazard identification number (Kemler co EMS Number: Stowage Category Segregation Code Transport in bulk according to Annex II of	Product contains environmentally hazardous substance Potassium Dichromate Yes Symbol (fish and tree) Warning: Oxidizing substances de): 90 F-A,S-Q B SG38 Stow "separated from" SGG2-ammonium compounds. SG49 Stow "separated from" SGG6-cyanides SG60 Stow "separated from" SGG16-peroxides
DOT, IMDG, IATA Environmental hazards: Marine pollutant: Special precautions for user Hazard identification number (Kemler co EMS Number: Stowage Category Segregation Code Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	Product contains environmentally hazardous substance Potassium Dichromate Yes Symbol (fish and tree) Warning: Oxidizing substances de): 90 F-A,S-Q B SG38 Stow "separated from" SGG2-ammonium compounds. SG49 Stow "separated from" SGG6-cyanides SG60 Stow "separated from" SGG16-peroxides
DOT, IMDG, IATA Environmental hazards: Marine pollutant: Special precautions for user Hazard identification number (Kemler co EMS Number: Stowage Category Segregation Code Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code Transport/Additional information: IMDG	Product contains environmentally hazardous substance Potassium Dichromate Yes Symbol (fish and tree) Warning: Oxidizing substances de): 90 F-A,S-Q B SG38 Stow "separated from" SGG2-ammonium compounds. SG49 Stow "separated from" SGG6-cyanides SG60 Stow "separated from" SGG16-peroxides of Not applicable.
DOT, IMDG, IATA Environmental hazards: Marine pollutant: Special precautions for user Hazard identification number (Kemler co EMS Number: Stowage Category Segregation Code Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code Transport/Additional information: IMDG Limited quantities (LQ)	Product contains environmentally hazardous substance Potassium Dichromate Yes Symbol (fish and tree) Warning: Oxidizing substances 90 F-A,S-Q B SG38 Stow "separated from" SGG2-ammonium compounds. SG49 Stow "separated from" SGG6-cyanides SG60 Stow "separated from" SGG16-peroxides of Not applicable.
DOT, IMDG, IATA Environmental hazards: Marine pollutant: Special precautions for user Hazard identification number (Kemler co EMS Number: Stowage Category Segregation Code Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code Transport/Additional information:	Product contains environmentally hazardous substance Potassium Dichromate Yes Symbol (fish and tree) Warning: Oxidizing substances de): 90 F-A,S-Q B SG38 Stow "separated from" SGG2-ammonium compounds. SG49 Stow "separated from" SGG6-cyanides SG60 Stow "separated from" SGG16-peroxides of Not applicable. 5L Code: E1
DOT, IMDG, IATA Environmental hazards: Marine pollutant: Special precautions for user Hazard identification number (Kemler co EMS Number: Stowage Category Segregation Code Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code Transport/Additional information: IMDG Limited quantities (LQ)	Product contains environmentally hazardous substance Potassium Dichromate Yes Symbol (fish and tree) Warning: Oxidizing substances of F-A,S-Q B SG38 Stow "separated from" SGG2-ammonium compounds. SG49 Stow "separated from" SGG6-cyanides SG60 Stow "separated from" SGG16-peroxides of Not applicable.

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ACTIVE ACTIVE

· UN "Model Regulation":

UN 3139 OXIDIZING LIQUID, N.O.S. (POTASSIUM DICHROMATE), 5.1, III

15 Regulatory information

 \cdot Safety, health and environmental regulations/legislation specific for the substance or mixture \cdot Sara

• 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

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

·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*



· Signal word Danger

• Hazard-determining components of labeling: Potassium Dichromate

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	(Contd. of page 10)
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.	
<i>IF INHALED: Remove person to fresh air and keep comfortable for breathing.</i>	
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 i	regulations
	eguanons.
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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Date of preparation / last revision	
Revision 1.2, 07-25-2024: Reviewed SDS for accuracy. STN/GW	
Creation date for SDS 12-23-2019. STN	
07/25/2024 / 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	
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.	