

according to the Global Harmonized System (and with all of the information required by the HPR)

| Revision Date 09/17/2018  | Version 1.6   |
|---|---|
|   |   |
| 104865  |   |
| Potassium dichromate for analysis (max. 0.000001% Hg) EMSUR<br>ACS,ISO  | E®  |
| 7778-50-9   |   |
| e substance or mixture and uses advised against   |   |
| Reagent for analysis  |   |
| safety data sheet   |   |
| Millipore (Canada) Ltd   109 Woodbine Downs Blvd. Unit 5   Etobic<br>  Ontario M9W 6Y1   Canada   General Inquiries: +1 800-645-5476<br>Monday to Friday, 9:00 AM to 4:00 PM Eastern Time (GMT-5)<br>MilliporeSigma is a business of Merck KGaA, Darmstadt, Germany | 6   |
| 800-424-9300 CHEMTREC (USA)<br>+1-703-527-3887 CHEMTREC (International)<br>24 Hours/day; 7 Days/week  |   |
|   | Potassium dichromate for analysis (max. 0.000001% Hg) EMSUR<br>ACS,ISO<br>7778-50-9<br>e substance or mixture and uses advised against<br>Reagent for analysis<br>safety data sheet<br>Millipore (Canada) Ltd   109 Woodbine Downs Blvd. Unit 5   Etobic<br>  Ontario M9W 6Y1   Canada   General Inquiries: +1 800-645-5476<br>Monday to Friday, 9:00 AM to 4:00 PM Eastern Time (GMT-5)<br>MilliporeSigma is a business of Merck KGaA, Darmstadt, Germany<br>800-424-9300 CHEMTREC (USA)<br>+1-703-527-3887 CHEMTREC (International) |

# SECTION 2. Hazards identification

#### **GHS Classification**

Oxidizing solid, Category 2, H272 Acute toxicity, Category 3, Oral, H301 Acute toxicity, Category 2, Inhalation, H330 Acute toxicity, Category 4, Dermal, H312 Skin corrosion, Category 1B, H314 Serious eye damage, Category 1, H318 Respiratory sensitization, Category 1, H334 Skin sensitization, Category 1, H317 Germ cell mutagenicity, Category 1B, H340 Carcinogenicity, Category 1B, H350 Reproductive toxicity, Category 1B, H360 Specific target organ systemic toxicity - single exposure, Category 3, Respiratory system, H335 Specific target organ systemic toxicity - repeated exposure, Category 1, H372 For the full text of the H-Statements mentioned in this Section, see Section 16.

# **GHS-Labeling**

according to the Global Harmonized System (and with all of the information required by the HPR)

| Product number | 104865                                    | Version 1.6                  |
|----------------|---|------------------------------|
| Product name   | Potassium dichromate for analysis (max. 0 | .000001% Hg) EMSURE® ACS,ISO |



*Signal Word* Danger

Hazard Statements

H340 May cause genetic defects.

H350 May cause cancer.

H360 May damage fertility or the unborn child.

H272 May intensify fire; oxidizer.

H301 Toxic if swallowed.

H312 Harmful in contact with skin.

H314 Causes severe skin burns and eye damage.

H317 May cause an allergic skin reaction.

H330 Fatal if inhaled.

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

H335 May cause respiratory irritation.

H372 Causes damage to organs through prolonged or repeated exposure.

# Precautionary Statements

P201 Obtain special instructions before use.

P202 Do not handle until all safety precautions have been read and understood.

P210 Keep away from heat.

P220 Keep/Store away from clothing/ combustible materials.

P221 Take any precaution to avoid mixing with combustibles.

P260 Do not breathe dust/ fume/ gas/ mist/ vapors/ spray.

P264 Wash skin thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.

P271 Use only outdoors or in a well-ventilated area.

P272 Contaminated work clothing must not be allowed out of the workplace.

P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

P284 Wear respiratory protection.

P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER/doctor.

P301 + P330 + P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P310 Immediately call a POISON CENTER/doctor.

P320 Specific treatment is urgent (see supplemental first aid instructions on this label).

P333 + P313 If skin irritation or rash occurs: Get medical advice/ attention.

P363 Wash contaminated clothing before reuse.

P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.

P403 + P233 Store in a well-ventilated place. Keep container tightly closed.

P405 Store locked up.

P501 Dispose of contents/ container to an approved waste disposal plant.

| Product number | 104865  | Version 1.6 |
|----------------|---|-------------|
| Product name   | Potassium dichromate for analysis (max. 0.000001% Hg) EMSURE® | ACS,ISO     |

# Other hazards

None known.

# SECTION 3. Composition/information on ingredients

| Formula    | K <sub>2</sub> Cr <sub>2</sub> O <sub>7</sub> | Cr₂K₂O⁊ (Hill) |
|------------|---|----------------|
| Molar mass | 294.19 g/mol                                  |                |

# Hazardous ingredients

Chemical name (Concentration) CAS-No. potassium dichromate (>= 90 % - <= 100 % ) 7778-50-9

# SECTION 4. First aid measures

# Description of first-aid measures

*General advice* First aider needs to protect himself.

# Inhalation

After inhalation: fresh air. Immediately call in physician. If breathing stops: immediately apply artificial respiration, if necessary also oxygen.

# Skin contact

In case of skin contact: Take off immediately all contaminated clothing. Rinse skin with water/ shower. Call a physician immediately.

# Eye contact

After eye contact: rinse out with plenty of water. Immediately call in ophthalmologist. Remove contact lenses.

# Ingestion

If swallowed: give water to drink (two glasses at most). Seek medical advice immediately. In exceptional cases only, if medical care is not available within one hour, induce vomiting (only in persons who are wide awake and fully conscious), administer activated charcoal (20 - 40 g in a 10% slurry) and consult a doctor as quickly as possible. Do not attempt to neutralize.

Never give anything by mouth to an unconscious person.

# Most important symptoms and effects, both acute and delayed

Irritation and corrosion, Allergic reactions, Cough, Shortness of breath

| Product number | 104865  | Version 1.6 |
|----------------|---|-------------|
| Product name   | Potassium dichromate for analysis (max. 0.000001% Hg) EMSURE® | ® ACS,ISO   |

Chromium(VI) is highly toxic. It is absorbed via both the lungs and the gastrointestinal tract. Being strong oxidizers, chromates/ bichromates can cause burns and ulcerations on the skin and mucous membranes and also irritations in the upper respiratory tract. Poorly healing ulcers occur after wound contact. In predisposed persons the substance rapidly leads to sensitization and allergic reactions of the respiratory tract (risk of pneumonia!) and damage to nasal mucous membranes (under given circumstances perforation of the septum). After swallowing severe symptoms in the gastrointestinal tract such as bloody diarrhea, vomiting (aspiration pneumonia!), spasms, circulatory collapse, unconsciousness, formation of methemoglobin. Absorption may result in hepatic and renal damage. Inhalable chromium(VI) compounds gave clear evidence to be carcinogenic in animal experiments. Lethal dose (man): 0.5g. Antidotes: chelating agents such as EDTA, DMPS (Demaval(R)). Risk of blindness!

# Indication of any immediate medical attention and special treatment needed

Carefully clean wounds and cover with sterile dressing material.

# **SECTION 5. Fire-fighting measures**

# Extinguishing media

Suitable extinguishing media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable extinguishing media

For this substance/mixture no limitations of extinguishing agents are given.

# Special hazards arising from the substance or mixture

Not combustible. Has a fire-promoting effect due to release of oxygen. Ambient fire may liberate hazardous vapors.

# Advice for firefighters

Special protective equipment for fire-fighters Stay in danger area only with self-contained breathing apparatus. Prevent skin contact by keeping a safe distance or by wearing suitable protective clothing.

Further information

Prevent fire extinguishing water from contaminating surface water or the ground water system.

# SECTION 6. Accidental release measures

# Personal precautions, protective equipment and emergency procedures

Advice for non-emergency personnel: Avoid generation and inhalation of dusts in all circumstances. Avoid substance contact. Ensure adequate ventilation. Evacuate the danger area, observe emergency procedures, consult an expert.

Advice for emergency responders:

Protective equipment see section 8.

# **Environmental precautions**

Do not let product enter drains.

#### Methods and materials for containment and cleaning up

| Product number | 104865  | Version 1.6 |
|----------------|---|-------------|
| Product name   | Potassium dichromate for analysis (max. 0.000001% Hg) EMSURE® | ACS,ISO     |

Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions (see sections 7 and 10). Take up carefully. Dispose of properly. Clean up affected area. Avoid generation of dusts.

# SECTION 7. Handling and storage

#### Precautions for safe handling

Observe label precautions.

Work under hood. Do not inhale substance/mixture.

### Conditions for safe storage, including any incompatibilities

*Requirements for storage areas and containers* No metal containers.

Dry.

Tightly closed. Do not store near combustible materials. Keep locked up or in an area accessible only to qualified or authorized persons.

Store below +30°C (+86°F).

# SECTION 8. Exposure controls/personal protection

#### Exposure limit(s)

| Ingredients    |                                 |                         |  |
|----------------|---------------------------------|-------------------------|--|
| Basis          | Value                           | Threshold<br>limits     | Remarks  |
| potassium dich | romate 7778-50-9                |                         |  |
| CAD AB OEL     | Time Weighted Average<br>(TWA): | 0.01 mg/m³              | Expressed as: as Cr                                |
|                | Time Weighted Average (TWA):    | 0.05 mg/m³              | Expressed as: as Cr                                |
| CAD BC OEL     | Ceiling Limit Value:            | 0.1 mg/m <sup>3</sup>   | Expressed as: as Cr                                |
|                | Time Weighted Average<br>(TWA): | 0.025 mg/m <sup>3</sup> | Expressed as: as Cr                                |
| CAD MB OEL     | Time Weighted Average (TWA):    | 0.05 mg/m³              | Expressed as: as Cr                                |
| CAD ON OEL     | Time Weighted Average (TWAEV):  | 0.05 mg/m³              | Expressed as: as Cr                                |
| OEL (QUE)      | Time Weighted Average (TWA):    | 0.05 mg/m³              | Exposure must be minimized.<br>Expressed as: as Cr |
|                | Time Weighted Average (TWA):    | 0.01 mg/m <sup>3</sup>  | Exposure must be minimized.<br>Expressed as: as Cr |
|                |                                 |                         | Recirculation prohibited<br>Expressed as: as Cr    |
|                |                                 |                         |  |

Recirculation prohibited Expressed as: as Cr

#### **Engineering measures**

Technical measures and appropriate working operations should be given priority over the use of personal protective equipment.

| Product number | 104865                                | Version 1.6                       |
|----------------|---------------------------------------|-----------------------------------|
| Product name   | Potassium dichromate for analysis (ma | ax. 0.000001% Hg) EMSURE® ACS,ISO |

# Individual protection measures

Protective clothing should be selected specifically for the workplace, depending on concentration and quantity of the hazardous substances handled. The chemical resistance of the protective equipment should be inquired at the respective supplier.

### Hygiene measures

Immediately change contaminated clothing. Apply skin- protective barrier cream. Wash hands and face after working with substance.

# *Eye/face protection* Tightly fitting safety goggles

Hand protection

full contact:

splash conta

|     | Glove material:<br>Glove thickness:<br>Break through time: | Nitrile rubber<br>0.11 mm<br>> 480 min |
|-----|--|--|
| ct: |  |  |
|     | Glove material:<br>Glove thickness:<br>Break through time: | Nitrile rubber<br>0.11 mm<br>> 480 min |
|     | -  |  |

The protective gloves to be used must comply with the specifications of EC Directive 89/686/EEC and the related standard EN374, for example KCL 741 Dermatril® L (full contact), KCL 741 Dermatril® L (splash contact).

The breakthrough times stated above were determined by KCL in laboratory tests acc. to EN374 with samples of the recommended glove types.

This recommendation applies only to the product stated in the safety data sheet and supplied by us as well as to the purpose specified by us. When dissolving in or mixing with other substances and under conditions deviating from those stated in EN374 please contact the supplier of CE-approved gloves (e.g. KCL GmbH, D-36124 Eichenzell, Internet: www.kcl.de).

*Other protective equipment:* protective clothing

# Respiratory protection

required when dusts are generated.

Recommended Filter type: Filter P 3 (acc. to DIN 3181) for solid and liquid particles of toxic and very toxic substances

The entrepeneur has to ensure that maintenance, cleaning and testing of respiratory protective devices are performed according to the instructions of the producer. These measures have to be properly documented.

| SECTION 9. Physical and chemical properties |                |  |
|---|----------------|--|
| Physical state                              | crystalline    |  |
| Color                                       | orange         |  |
| Odor  | odorless       |  |
| Odor Threshold                              | Not applicable |  |

# SECTION 9. Physical and chemical properties

according to the Global Harmonized System (and with all of the information required by the HPR)

| Product number<br>Product name            | 104865 Version 1.6<br>Potassium dichromate for analysis (max. 0.000001% Hg) EMSURE® ACS,ISO |
|---|---|
| рН  | 3.6<br>at 100 g/l   |
| Melting point                             | ca. 748 °F (398 °C)   |
|   | Method: OECD Test Guideline 102   |
| Boiling point/boiling range               | > 932 °F (> 500 °C)<br>at  1,013 hPa  |
| Flash point                               | Not applicable  |
| Evaporation rate                          | No information available.   |
| Flammability (solid, gas)                 | not auto-flammable<br>Relative self-ignition temperature for solids                         |
|   | The product is not flammable.<br>Test N.1: Test method for readily combustible solids       |
| Lower explosion limit                     | Not applicable  |
| Upper explosion limit                     | Not applicable  |
| Vapor pressure                            | Not applicable  |
| Relative vapor density                    | No information available.   |
| Density                                   | ca.2.7 g/cm3<br>at 68 °F (20 °C)<br>Method: OECD Test Guideline 109                         |
| Relative density                          | No information available.   |
| Water solubility                          | ca.115 g/l<br>Method: OECD Test Guideline 105   |
| Partition coefficient: n-                 | No information available.   |
| octanol/water<br>Autoignition temperature | No information available.   |
| Decomposition temperature                 | ca.932 °F (500 °C)  |
| Viscosity, dynamic                        | No information available.   |
| Explosive properties                      | Not classified as explosive.  |
| Oxidizing properties                      | The substance or mixture is classified as oxidizing with the category 2.                    |
| Ignition temperature                      | Not applicable  |

| Product number | 104865   | Version 1.6 |
|----------------|--|-------------|
| Product name   | Potassium dichromate for analysis (max. 0.000001% Hg) EMSURE | ® ACS,ISO   |

Bulk density

1,250 kg/m3

# **SECTION 10. Stability and reactivity**

# Reactivity

See below

# **Chemical stability**

The product is chemically stable under standard ambient conditions (room temperature) .

# Possibility of hazardous reactions

Risk of explosion with:

Iron, magnesium, hydrazine and derivatives, hydroxylamine, ammonium nitrate, Boron, Acetic anhydride, oxidizable substances, Reducing agents, sulfuric acid, silicon

Exothermic reaction with:

anhydrides, phosphides, Sulfides, nitrides, Fluorine

Risk of ignition or formation of inflammable gases or vapors with:

organic combustible substances, glycerol, Powdered metals, hydrides, alkali compounds

Acetone, with, sulfuric acid

Generates dangerous gases or fumes in contact with:

hydrochloric acid

# Conditions to avoid

no information available

# Incompatible materials

no information available

# Hazardous decomposition products

no information available

# SECTION 11. Toxicological information

# Information on toxicological effects

*Likely route of exposure* Eye contact, Skin contact, Ingestion

Acute oral toxicity LD50 Rat: 90.5 mg/kg OECD Test Guideline 401

Symptoms: If ingested, severe burns of the mouth and throat, as well as a danger of perforation of the esophagus and the stomach.

Acute inhalation toxicity LC50 Rat: 0.083 mg/l; 4 h ; dust/mist OECD Test Guideline 403

Product number104865Version 1.6Product namePotassium dichromate for analysis (max. 0.000001% Hg) EMSURE® ACS,ISO

Symptoms: mucosal irritations, Cough, Shortness of breath, Possible damages:, damage of respiratory tract

Acute dermal toxicity LD50 Rat: 1,170 mg/kg (IUCLID)

*Skin irritation* Rabbit Result: Causes burns. OECD Test Guideline 404

Causes burns.

*Eye irritation* Causes serious eye damage. Risk of blindness!

Sensitization Sensitization test (Magnusson and Kligman): Result: positive

(IUCLID)

Patch test: human Result: positive

# (IUCLID)

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

May cause an allergic skin reaction.

*Genotoxicity in vitro* Ames test Salmonella typhimurium Result: positive (National Toxicology Program)

*CMR effects* Mutagenicity:May cause genetic defects. Carcinogenicity:May cause cancer. Teratogenicity / Reproductive toxicity: May damage fertility or the unborn child.

*Specific target organ systemic toxicity - single exposure* May cause respiratory irritation. Target Organs: Respiratory system

*Specific target organ systemic toxicity - repeated exposure* Causes damage to organs through prolonged or repeated exposure.

# Aspiration hazard

Regarding the available data the classification criteria are not fulfilled.

# Carcinogenicity

IARC

Group 1: Carcinogenic to humans

according to the Global Harmonized System (and with all of the information required by the HPR)

| Product number<br>Product name | 104865<br>Potassium dichromate for a | Version 1.6<br>nalysis (max. 0.000001% Hg) EMSURE® ACS,ISO |
|--------------------------------|--------------------------------------|--|
|                                | potassium dichromate                 | 7778-50-9  |
| OSHA                           |                                      |  |
|                                | potassium dichromate                 | 7778-50-9  |
| NTP                            | Known carcinogen.                    |  |
|                                | potassium dichromate                 | 7778-50-9  |
| ACGIH                          | A1: Confirmed human carcinogen       |  |
|                                | potassium dichromate                 | 7778-50-9  |

# Further information

Chromium(VI) is highly toxic. It is absorbed via both the lungs and the gastrointestinal tract. Being strong oxidizers, chromates/ bichromates can cause burns and ulcerations on the skin and mucous membranes and also irritations in the upper respiratory tract. Poorly healing ulcers occur after wound contact. In predisposed persons the substance rapidly leads to sensitization and allergic reactions of the respiratory tract (risk of pneumonia!) and damage to nasal mucous membranes (under given circumstances perforation of the septum). After swallowing severe symptoms in the gastrointestinal tract such as bloody diarrhea, vomiting (aspiration pneumonia!), spasms, circulatory collapse, unconsciousness, formation of methemoglobin. Absorption may result in hepatic and renal damage. Inhalable chromium(VI) compounds gave clear evidence to be carcinogenic in animal experiments. Lethal dose (man): 0.5g. Antidotes: chelating agents such as EDTA, DMPS (Demaval(R)).

Other dangerous properties can not be excluded.

This substance should be handled with particular care.

# SECTION 12. Ecological information

# Ecotoxicity

*Toxicity to fish* LC50 Lepomis macrochirus (Bluegill sunfish): 0.131 mg/l; 96 h (External MSDS) *Toxicity to daphnia and other aquatic invertebrates* Immobilization EC50 Daphnia magna (Water flea): 0.62 mg/l; 48 h OECD Test Guideline 202

Toxicity to algae

EC50 Pseudokirchneriella subcapitata (green algae): 0.31 mg/l; 72 h (External MSDS)

IC50 Chlorella vulgaris (Fresh water algae): 0.16 - 0.59 mg/l; 96 h (IUCLID)

# Toxicity to bacteria

microtox test EC50 Photobacterium phosphoreum: 58 mg/l; 30 min

*Toxicity to fish (Chronic toxicity)* NOEC Pimephales promelas (fathead minnow): 6 mg/l; 7 d (External MSDS)

*Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)* NOEC Daphnia: 0.016 - 0.064 mg/l; 7 d (External MSDS)

# Persistence and degradability

Biodegradability

The methods for determining the biological degradability are not applicable to inorganic substances.

| Product number | 104865  | Version 1.6 |
|----------------|---|-------------|
| Product name   | Potassium dichromate for analysis (max. 0.000001% Hg) EMSURE® | ACS,ISO     |

### **Bioaccumulative potential**

No information available.

### Mobility in soil

No information available.

# SECTION 13. Disposal considerations

The information presented only applies to the material as supplied. The identification based on characteristic(s) or listing may not apply if the material has been used or otherwise contaminated. It is the responsibility of the waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste identification and disposal methods in compliance with applicable regulations. Disposal should be in accordance with applicable regional, national and local laws and regulations.

### SECTION 14. Transport information

| Land transport (DOT)         |   |
|------------------------------|---|
| UN number                    | UN 3086   |
| Proper shipping name         | TOXIC SOLID, OXIDIZING, N.O.S. (POTASSIUM DICHROMATE) |
| Class                        | 6.1 (5.1)   |
| Packing group                | II  |
| Environmentally hazardous    |   |
| Air transport (IATA)         |   |
| UN number                    | UN 3086   |
| Proper shipping name         | TOXIC SOLID, OXIDIZING, N.O.S. (POTASSIUM DICHROMATE) |
| Class                        | 6.1 (5.1)   |
| Packing group                | II  |
| Environmentally hazardous    |   |
| Special precautions for user | no  |
| Sea transport (IMDG)         |   |
| UN number                    | UN 3086   |
| Proper shipping name         | TOXIC SOLID, OXIDIZING, N.O.S. (POTASSIUM DICHROMATE) |
| Class                        | 6.1 (5.1)   |
| Packing group                | II  |
| Environmentally hazardous    |   |
| Special precautions for user | yes   |
| EmS                          | F-A S-Q   |

SECTION 15. Regulatory information United States of America

TSCA 12b

| Product number<br>Product name                              | 104865<br>Potassium dichromate for analysis (max. 0.000001% Hg) EMSURE®   | Version 1.6<br>ACS,ISO |
|---|---|------------------------|
| <i>Ingredients</i><br>potassium dichromate<br><b>Canada</b> | 7778-50-9   |                        |
| •   | ied in accordance with the hazard criteria of the Hazardous Products Re<br>all the information required by the HPR. | gulations              |
| Notification status<br>TSCA:                                | All components of the product are listed in the TSCA-inventory.   |                        |
| DSL:  | All components of this product are on the Canadian DSL  |                        |

# **SECTION 16. Other information**

# Training advice

Provide adequate information, instruction and training for operators.

### Labeling

Hazard pictograms



*Signal Word* Danger

Hazard Statements H272 May intensify fire; oxidizer. H301 Toxic if swallowed. H312 Harmful in contact with skin. H314 Causes severe skin burns and eve damage. H317 May cause an allergic skin reaction. H330 Fatal if inhaled. H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled. H335 May cause respiratory irritation. H340 May cause genetic defects. H350 May cause cancer. H360 May damage fertility or the unborn child. H372 Causes damage to organs through prolonged or repeated exposure. H410 Very toxic to aquatic life with long lasting effects. Precautionary Statements Prevention P201 Obtain special instructions before use. P221 Take any precaution to avoid mixing with combustibles, heavy-metal compounds, acids and alkalis. P273 Avoid release to the environment.

P280 Wear protective gloves/ protective clothing/ eye protection/ face protection. Response

| Product number | 104865  | Version 1.6 |
|----------------|---|-------------|
| Product name   | Potassium dichromate for analysis (max. 0.000001% Hg) EMSURE® | ACS,ISO     |

P301 + P330 + P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

P302 + P352 IF ON SKIN: Wash with plenty of soap and water.

P304 + P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P308 + P310 IF exposed or concerned: immediately call a POISON CENTER or doctor/ physician.

Restricted to professional users.

# Key or legend to abbreviations and acronyms used in the safety data sheet

Used abbreviations and acronyms can be looked up at www.wikipedia.org.

Revision Date09/17/2018

The information contained herein is based on the present state of our knowledge. It characterizes the product with regard to appropriate safety precautions. It does not represent a warranty of any product properties and we assume no liability for any loss or injury which may result from the use of this information. Users should conduct their own investigations to determine the suitability of the information.

All rights reserved. Millipore and the "M" Mark are registered trademarks of Merck KGaA, Darmstadt, Germany.