according to 1907/2006/EC, Article 31

Printing date 07.06.2021

Scharlau

Version number 2.0

Revision: 02.06.2021

# SECTION 1: Identification of the substance/mixture and of the company/ undertaking

· 1.1 Product identifier

- · Trade name: Potassium dichromate, solution 1/24 mol/l (0,25 N)
- · Article number: PO0232
- 1.2 Relevant identified uses of the substance or mixture and uses advised against No further relevant information available.
- Application of the substance / the preparation: Laboratory reagent
- · 1.3 Details of the supplier of the safety data sheet
- Manufacturer/Supplier: Scharlab, S.L.
   C/Gato Pérez, 33. Pol.Ind. Mas d'en Cisa 08181 Sentmenat (Barcelona) SPAIN
   Tel: (+34) 93 745 64 00 - FAX: (+34) 93 715 27 65
   email: scharlab@scharlab.com
   Internet Web Site: www.scharlab.com
   Regional representation:

## Scharlab, S.L. C/Gato Pérez, 33. Pol.Ind. Mas d'en Cisa 08181 Sentmenat (Barcelona) SPAIN Tel: (+34) 93 745 64 00 - FAX: (+34) 93 715 27 65 email: scharlab@scharlab.com Internet Web Site: www.scharlab.com

Further information obtainable from: technical department

## 1.4 Emergency telephone number:

Toxicological Information National Institute of Toxicology and Forensic Sciences: + 34 91 562 04 20. The information will be provided (24h/365 days) Please contact the regional Scharlab distributor/dealer in your country During normal opening times: Scharlab, S.L. (+34) 93 715 18 11

# **SECTION 2: Hazards identification**

- 2.1 Classification of the substance or mixture
  Classification according to Regulation (EC) No 1272/2008
  - Classification according to Regulation (EC) No 1212/2
    - GHS06 skull and crossbones

Acute Tox. 3 H331 Toxic if inhaled.

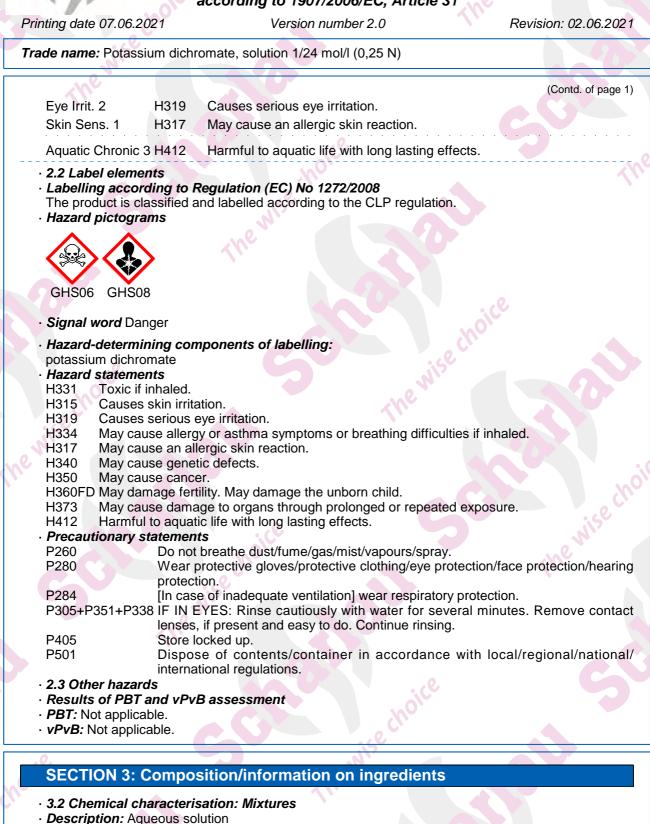
GHS08	health ha	zard	
Resp. Sens. 1	H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.	
Muta. 1B	H340	May cause genetic defects.	
Carc. 1B	H350	May cause cancer.	
Repr. 1B	H360FE	May damage fertility. May damage the unborn child.	
STOT RE 2	H373	May cause damage to organs through prolonged or repeated exposure.	
GHS07		ise choise	
Skin Irrit. 2	H315	Causes skin irritation.	
		(Contribution of the second O)	

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# Safety data sheet

according to 1907/2006/EC, Article 31



· Dangerous components:

CAS: 7778-50-9 EINECS: 231-906-6 Reg.nr.: 01-2119454792-32-XXXX

1-5% potassium dichromate 🚸 Ox. Sol. 2, H272; 🚸 Acute Tox. 3, H301; Acute Tox. 2, H330; 🚯 Resp. Sens. 1, H334; Muta. 1B, H340; Carc. 1B, H350; Repr. 1B, H360FD; STOT RE 1, H372; 🔗 Skin Corr. 1B, H314; 🚯 Aquatic Acute 1, H400; Aquatic Chronic 1, H410; () Acute Tox. 4, H312; Skin Sens. 1, H317

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Trade name: Potassium dichromate, solution 1/24 mol/l (0,25 N)

- · SVHC
- 7778-50-9 potassium dichromate
- · Additional information: For the wording of the listed hazard phrases refer to section 16.

# **SECTION 4: First aid measures**

· 4.1 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 equipment 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.
- **4.2 Most important symptoms and effects, both acute and delayed** No further relevant information available.
- 4.3 Indication of any immediate medical attention and special treatment needed
- No further relevant information available.

# **SECTION 5: Firefighting measures**

- · 5.1 Extinguishing media
- Suitable extinguishing agents:
- CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam. • 5.2 Special hazards arising from the substance or mixture
- No further relevant information available.
- · 5.3 Advice for firefighters
- · Protective equipment: Mouth respiratory protective device.

# **SECTION 6: Accidental release measures**

- · 6.1 Personal precautions, protective equipment and emergency procedures Not required.
- 6.2 Environmental precautions: Inform respective authorities in case of seepage into water course or sewage system. Do not allow to enter sewers/ surface or ground water.

• 6.3 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.

6.4 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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# **SECTION 7: Handling and storage**

· 7.1 Precautions for safe handling

Ensure good ventilation/exhaustion at the workplace. Open and handle receptacle with care. Prevent formation of aerosols.

- · Information about fire and explosion protection: Keep respiratory protective device available.
- · 7.2 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 container tightly sealed.
- 7.3 Specific end use(s) No further relevant information available.

## **SECTION 8: Exposure controls/personal protection**

- · 8.1 Control parameters
- · Additional information about design of technical facilities: No further data; see item 7.
- · Ingredients with limit values that require monitoring at the workplace:

#### 7778-50-9 potassium dichromate

WEL Long-term value: 0.01 0.025\* mg/m<sup>3</sup>

as Cr; Carc, Sen, BMGV; \*process generated

# Ingredients with biological limit values:

7778-50-9 potassium dichromate BMGV 10 µmol/mol creatinine

> Medium: urine Sampling time: post shift Parameter: chromium

· Additional information: The lists valid during the making were used as basis.

- 8.2 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.
- · Respiratory protection:

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

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 (Contd. on page 5)

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- 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

# **SECTION 9: Physical and chemical properties**

- 9.1 Information on basic physical and chemical properties
- · General Information
- Appearance:
  - Form:
- Colour:
- Odour:
- Odour threshold:
- pH-value:
- Change in condition Melting point/freezing point: 0°C Initial boiling point and boiling range: 100 °C
- · Flash point:
- · Flammability (solid, gas):
- Decomposition temperature:
- Auto-ignition temperature:
- · Explosive properties:
- · Explosion limits: Lower: Upper:
- · Vapour pressure at 20 °C:
- Density at 20 °C:
- · Relative density
- Vapour density
- Evaporation rate
- Solubility in / Miscibility with water:
- Partition coefficient: n-octanol/water:
- · Viscositv: Dynamic: Kinematic:
- · Solvent content: Water:

Solids content:

1e Wise

Fluid Orange Odourless Not determined. Not determined.

Not applicable. Not applicable. Not determined. Product is not selfigniting.

Product does not present an explosion hazard.

Not determined. Not determined.

23 hPa

1.0206 g/cm<sup>3</sup> Not determined. Not determined. Not determined.

Not miscible or difficult to mix.

Not determined.

Not determined. Not determined.

98.8 % 1.2 %

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· 9.2 Other information

No further relevant information available.

## **SECTION 10: Stability and reactivity**

- · 10.1 Reactivity No further relevant information available.
- · 10.2 Chemical stability
- *Thermal decomposition / conditions to be avoided:* No decomposition if used according to specifications.
- · 10.3 Possibility of hazardous reactions No dangerous reactions known.
- · 10.4 Conditions to avoid No further relevant information available.
- 10.5 Incompatible materials: No further relevant information available.
- 10.6 Hazardous decomposition products: No dangerous decomposition products known.

## **SECTION 11: Toxicological information**

- 11.1 Information on toxicological effects
- · Acute toxicity
- Toxic if inhaled.
- LD/LC50 values relevant for classification:
- 7778-50-9 potassium dichromate

Oral LD50 190 mg/kg (mouse)

- Primary irritant effect:
  Skin corrosion/irritation Causes skin irritation.
- Serious eye damage/irritation Causes serious eye irritation.
- **Respiratory or skin sensitisation** May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause an allergic skin reaction.
- · Additional toxicological information:
- · CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)
- · Germ cell mutagenicity
- May cause genetic defects.
- Carcinogenicity May cause cancer.
- · Reproductive toxicity
- May damage fertility. May damage the unborn child.
- · STOT-single exposure Based on available data, the classification criteria are not met.
- · STOT-repeated exposure
- May cause damage to organs through prolonged or repeated exposure.
- · Aspiration hazard Based on available data, the classification criteria are not met.

# **SECTION 12: Ecological information**

- · 12.1 Toxicity
- · Aquatic toxicity: No further relevant information available.
- 12.2 Persistence and degradability No further relevant information available.
- 12.3 Bioaccumulative potential No further relevant information available.
- · 12.4 Mobility in soil No further relevant information available.
- · Ecotoxical effects:
- · Remark: Harmful to fish

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- Additional ecological information:
- · General notes:

Water hazard class 3 (German Regulation) (Self-assessment): extremely hazardous for water Do not allow product to reach ground water, water course or sewage system, even in small quantities.

Danger to drinking water if even extremely small quantities leak into the ground.

Harmful to aquatic organisms

- 12.5 Results of PBT and vPvB assessment
- · **PBT:** Not applicable.
- · vPvB: Not applicable.
- · 12.6 Other adverse effects No further relevant information available.

## **SECTION 13: Disposal considerations**

13.1 Waste treatment methods

- **Recommendation** Must not be disposed together with household garbage. Do not allow product to reach sewage system.
- · Uncleaned packaging:
- · Recommendation: Disposal must be made according to official regulations.

# **SECTION 14: Transport information**

· 14.1 UN-Number

· ADR · IMDG, IATA

· ADR, IMDG, IATA

· ADR, IMDG, IATA

· 14.2 UN proper shipping name

14.3 Transport hazard class(es)

- UN3287
- 3287 TOXIC LIQUID, INORGANIC, N.O.S. TOXIC LIQUID, INORGANIC, N.O.S.
- Class 6.1 Toxic substances. Label 6.1 · 14.4 Packing group · ADR, IMDG, IATA ш · 14.5 Environmental hazards: · Marine pollutant: No 14.6 Special precautions for user Warning: Toxic substances. Stowage Category SW2 Clear of living quarters. Stowage Code 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code Not applicable. Transport/Additional information: · ADR · Limited quantities (LQ) 5L · Transport category 2 Е Tunnel restriction code

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· UN "Model Regulation":

(Contd. of page 7) UN 3287 TOXIC LIQUID, INORGANIC, N.O.S., 6.1,

# **SECTION 15: Regulatory information**

- 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
- · Directive 2012/18/EU
- · Named dangerous substances ANNEX I None of the ingredients is listed.
- Seveso category H2 ACUTE TOXIC
- · Qualifying quantity (tonnes) for the application of lower-tier requirements 50 t
- · Qualifying quantity (tonnes) for the application of upper-tier requirements 200 t
- LIST OF SUBSTANCES SUBJECT TO AUTHORISATION (ANNEX XIV)
- 7778-50-9 potassium dichromate: Sunset date: 2017-09-21
- · REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 3, 28, 29, 30, 47, 72
- DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment Annex II

7778-50-9 potassium dichromate

National regulations:

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.

- · Other regulations, limitations and prohibitive regulations
- Substances of very high concern (SVHC) according to REACH, Article 57
- 7778-50-9 potassium dichromate
- · 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

# **SECTION 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.

## Relevant phrases

- H272 May intensify fire; oxidiser.
- 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.
- H340 May cause genetic defects.
- H350 May cause cancer.
- H360FD May damage fertility. May damage the unborn child.
- H372 Causes damage to organs through prolonged or repeated exposure.
- H400 Very toxic to aquatic life.
- H410 Very toxic to aquatic life with long lasting effects.
- · Classification according to Regulation (EC) No 1272/2008
- The classification of the mixture is generally based on the calculation method using substance data according to Regulation (EC) No 1272/2008.
- · Department issuing SDS: product safety department
- · Contact: msds@scharlab.com

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wise choice

the wise choice

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(Contd. of page 8) Abbreviations and acronyms: RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail) ICAO: International Civil Aviation Organisation ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods IATA: International Air Transport Association GHS: Globally Harmonised System of Classification and Labelling of Chemicals 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) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic SVHC: Substances of Very High Concern wise choice vPvB: very Persistent and very Bioaccumulative Ox. Sol. 2: Oxidizing solids – Category 2 Acute Tox. 3: Acute toxicity – Category 3 Acute Tox. 4: Acute toxicity – Category 4 Acute Tox. 2: Acute toxicity – Category 2 Skin Corr. 1B: Skin corrosion/irritation - Category 1B Skin Irrit. 2: Skin corrosion/irritation – Category 2 Eye Irrit. 2: Serious eye damage/eye irritation – Category 2 Resp. Sens. 1: Respiratory sensitisation - Category 1 Skin Sens. 1: Skin sensitisation - Category 1 Muta. 1B: Germ cell mutagenicity - Category 1B Carc. 1B: Carcinogenicity – Category 1B Repr. 1B: Reproductive toxicity – Category 1B STOT RE 1: Specific target organ toxicity (repeated exposure) - Category 1 STOT RE 2: Specific target organ toxicity (repeated exposure) - Category 2 Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard - Category 1 Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1 Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3 hewisechoic

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