

## Safety data sheet

### according to 1907/2006/EC, Article 31

Printing date 07.06.2021

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 0,04 mol/l / mercury(II) sulfate 80 g/l, solution in sulfuric acid, for COD determination, according to ISO 6060

- Article number:** PO0234

#### 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



GHS06 skull and crossbones

Acute Tox. 2      H330      Fatal if inhaled.



GHS08 health hazard

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	H360FD	May damage fertility. May damage the unborn child.
STOT RE 2	H373	May cause damage to organs through prolonged or repeated exposure.



GHS05 corrosion

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Skin Corr. 1A      H314      Causes severe skin burns and eye damage.

Eye Dam. 1      H318      Causes serious eye damage.



GHS09 environment

Aquatic Chronic 2 H411      Toxic to aquatic life with long lasting effects.



GHS07

Acute Tox. 4      H302      Harmful if swallowed.

Skin Sens. 1      H317      May cause an allergic skin reaction.

#### • 2.2 Label elements

##### • Labelling according to Regulation (EC) No 1272/2008

The product is classified and labelled according to the CLP regulation.

##### • Hazard pictograms



GHS05



GHS06



GHS08



GHS09

##### • Signal word Danger

##### • Hazard-determining components of labelling:

mercury sulphate

sulphuric acid

potassium dichromate

##### • Hazard statements

H302      Harmful if swallowed.

H330      Fatal if inhaled.

H314      Causes severe skin burns and eye damage.

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

H317      May cause an allergic skin reaction.

H340      May cause genetic defects.

H350      May cause cancer.

H360FD May damage fertility. May damage the unborn child.

H373      May cause damage to organs through prolonged or repeated exposure.

H411      Toxic to aquatic life with long lasting effects.

##### • Precautionary statements

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

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 on this label).

P362+P364      Take off contaminated clothing and wash it before reuse.

P405      Store locked up.

P501      Dispose of contents/container in accordance with local/regional/national/international regulations.

##### • 2.3 Other hazards

##### • Results of PBT and vPvB assessment

• PBT: Not applicable.

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• **vPvB:** Not applicable.

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### SECTION 3: Composition/information on ingredients

• **3.2 Chemical characterisation: Mixtures**

• **Description:** Mixture of substances listed below with nonhazardous additions.

• **Dangerous components:**

CAS: 7664-93-9 EINECS: 231-639-5 Reg.nr.: 01-2119458838-20-XXXX	sulphuric acid ⚠ Skin Corr. 1A, H314	10-25%
CAS: 7783-35-9 EINECS: 231-992-5	mercury sulphate ⚠ Acute Tox. 2, H300; Acute Tox. 1, H310; Acute Tox. 2, H330; ⚠ STOT RE 2, H373; ⚠ Aquatic Acute 1, H400; Aquatic Chronic 1, H410	5-10%
CAS: 7778-50-9 EINECS: 231-906-6 Reg.nr.: 01-2119454792-32-XXXX	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	0.1-1%

• **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:**

Do not induce vomiting; call for medical help immediately.

Drink plenty of water and provide fresh air. Call for a doctor immediately.

• **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.

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### SECTION 5: Firefighting measures

- **5.1 Extinguishing media**
- **Suitable extinguishing agents:**  
CO<sub>2</sub>, 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**  
Wear protective equipment. Keep unprotected persons away.
- **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).  
Use neutralising agent.  
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.

### 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:**

**7664-93-9 sulphuric acid**

WEL Long-term value: 0.05\* mg/m<sup>3</sup>

\*mist: defined as thoracic fraction

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**7783-35-9 mercury sulphate**

WEL Long-term value: 0.02 mg/m<sup>3</sup>  
as Hg

**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:****7783-35-9 mercury sulphate**

BMGV 20 µmol/mol creatinine  
Medium: urine  
Sampling time: random  
Parameter: mercury

**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.  
Avoid contact with the eyes and skin.

**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 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.

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• **Eye protection:**

Tightly sealed goggles

**SECTION 9: Physical and chemical properties**• **9.1 Information on basic physical and chemical properties**• **General Information**• **Appearance:****Form:**

Fluid

**Colour:**

Orange

• **Odour:**

Odourless

• **Odour threshold:**

Not determined.

• **pH-value:**

Not determined.

• **Change in condition****Melting point/freezing point:**

Undetermined.

**Initial boiling point and boiling range:** Undetermined.• **Flash point:**

Not applicable.

• **Flammability (solid, gas):**

Not applicable.

• **Decomposition temperature:**

Not determined.

• **Auto-ignition temperature:**

Product is not selfigniting.

• **Explosive properties:**

Product does not present an explosion hazard.

• **Explosion limits:****Lower:**

Not determined.

**Upper:**

Not determined.

• **Vapour pressure at 20 °C:**

23 hPa

• **Density at 20 °C:**1.19 g/cm<sup>3</sup>• **Relative density**

Not determined.

• **Vapour density**

Not determined.

• **Evaporation rate**

Not determined.

• **Solubility in / Miscibility with water:**

Not miscible or difficult to mix.

• **Partition coefficient: n-octanol/water:** Not determined.• **Viscosity:****Dynamic:**

Not determined.

**Kinematic:**

Not determined.

• **Solvent content:****Water:**

76.6 %

**Solids content:**

23.4 %

• **9.2 Other information**

No further relevant information available.

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### 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**  
Harmful if swallowed.  
Fatal if inhaled.
- **LD/LC50 values relevant for classification:**  

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**7783-35-9 mercury sulphate**  
Oral LD50 57 mg/kg (rat)  
Dermal LD50 625 mg/kg (rat)  
**7778-50-9 potassium dichromate**  
Oral LD50 190 mg/kg (mouse)
- **Primary irritant effect:**
- **Skin corrosion/irritation**  
Causes severe skin burns and eye damage.
- **Serious eye damage/irritation**  
Causes serious eye damage.
- **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 (carcinogenicity, 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.

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- **Ecotoxicological effects:**
- **Remark:** Toxic for fish
- **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.  
Must not reach sewage water or drainage ditch undiluted or unneutralised.  
Danger to drinking water if even extremely small quantities leak into the ground.  
Also poisonous for fish and plankton in water bodies.  
Toxic for 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**
  - **14.2 UN proper shipping name**
  - **ADR**
  - **IMDG**
  - **IATA**
  - **14.3 Transport hazard class(es)**
  - **ADR**
  - **Class**
  - **Label**
- UN2922
- 2922 CORROSIVE LIQUID, TOXIC, N.O.S.  
(SULPHURIC ACID, MERCURY SULPHATE),  
ENVIRONMENTALLY HAZARDOUS
- CORROSIVE LIQUID, TOXIC, N.O.S.  
(SULPHURIC ACID, MERCURY SULPHATE),  
MARINE POLLUTANT
- CORROSIVE LIQUID, TOXIC, N.O.S.  
(SULPHURIC ACID, MERCURY SULPHATE)
- 8 Corrosive substances.  
8+6.1



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#### • IMDG



#### • Class • Label

8 Corrosive substances.  
8/6.1

#### • IATA



#### • Class • Label

8 Corrosive substances.  
8 (6.1)

#### • 14.4 Packing group

#### • ADR, IMDG, IATA

#### • 14.5 Environmental hazards:

#### • Marine pollutant:

#### • Special marking (ADR):

#### • 14.6 Special precautions for user

#### • Hazard identification number (Kemler code):

#### • EMS Number:

#### • Segregation groups

#### • Stowage Category

#### • Stowage Code

#### • 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

#### • Transport/Additional information:

II  
Product contains environmentally hazardous substances: mercury sulphate  
Yes  
Symbol (fish and tree)  
Symbol (fish and tree)  
Warning: Corrosive substances.  
86  
F-A,S-B  
Acids, heavy metals and their salts (including their organometallic compounds)  
B  
SW2 Clear of living quarters.  
Not applicable.

#### • ADR

#### • Limited quantities (LQ)

#### • Transport category

#### • Tunnel restriction code

#### • UN "Model Regulation":

1L  
2  
E  
UN 2922 CORROSIVE LIQUID, TOXIC, N.O.S.  
(SULPHURIC ACID, MERCURY SULPHATE), 8  
(6.1), II, ENVIRONMENTALLY HAZARDOUS

## 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

E2 Hazardous to the Aquatic Environment

#### • Qualifying quantity (tonnes) for the application of lower-tier requirements 50 t

#### • Qualifying quantity (tonnes) for the application of upper-tier requirements 200 t

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• **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, 18, 28, 29, 30, 47, 72

• **Regulation (EU) No 649/2012**

7783-35-9 mercury sulphate: Annex I Part 1

Annex I Part 3

Annex V Part 2

• **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.

H300 Fatal if swallowed.

H301 Toxic if swallowed.

H310 Fatal in contact with skin.

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.

H373 May cause 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

• **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

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INECS: 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  
vPvB: very Persistent and very Bioaccumulative  
Ox. Sol. 2: Oxidizing solids – Category 2  
Acute Tox. 2: Acute toxicity – Category 2  
Acute Tox. 3: Acute toxicity – Category 3  
Acute Tox. 1: Acute toxicity – Category 1  
Acute Tox. 4: Acute toxicity – Category 4  
Skin Corr. 1A: Skin corrosion/irritation – Category 1A  
Skin Corr. 1B: Skin corrosion/irritation – Category 1B  
Eye Dam. 1: Serious eye damage/eye irritation – Category 1  
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 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2