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

- · 1.1 Product identifier
- · Trade name: Potassium dichromate, EssentQ®
- · Article number: PO0219
- · CAS Number:
- 7778-50-9 • *EC number:* 231-906-6
- Index number: 024-002-00-6
- 1.2 Relevant identified uses of the substance or mixture and uses advised against

SDS according to Article 31 of Regulation (EC) 1907/2006. According to Article 14 (1) of UK REACH Regulation (EC) No 1907/2006, exposure assessment and risk characterisation are not required.

- · 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

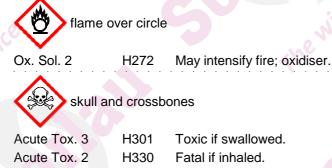
· Further information obtainable from: Technical Department

#### • 1.4 Emergency telephone number:

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



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			(Contd. of page 1)
hea	alth hazard	, oice	ne
Resp. Sens.	1 H334	May cause allergy or asthma symptoms or breathir inhaled.	ng difficulties if
Muta. 1B	H340	May cause genetic defects.	
Carc. 1B	H350	May cause cancer.	
Repr. 1B	H360FE	D May damage fertility. May damage the unborn child.	
STOT RE 1	H372	Causes damage to the respiratory system through repeated exposure.	n prolonged or
	rosion	ice	
<u> </u>	1051011		
Skin Corr. 1E	B H314	Causes severe skin burns and eye damage.	
tenv	vironment		
Aquatic Acut	e 1 H400	Very toxic to aquatic life.	
Aquatic Acut Aquatic Chro		Very toxic to aquatic life with long lasting effects.	
Acute Tox. 4 Skin Sens. 1	H317	Harmful in contact with skin. May cause an allergic skin reaction.	Thewise
<ul> <li>2.2 Label ele</li> <li>Labelling ad The substand</li> <li>Hazard picto</li> </ul>	cording to F ce is classifie	Regulation (EC) No 1272/2008 d and labelled according to the GB CLP regulation.	
GHS03 GH	HS05 GHS0	6 GHS08 GHS09	5
· Signal word	Danger		
· Hazard state	ements	C SC	
	intensify fire	; oxidiser.	
	ic if swallowe mful in contac		
	al if inhaled.	SL WIUT SKIIT.	
H314 Cau	ises severe s	kin burns and eye damage.	
H334 May	cause allerg	y or asthma symptoms or breathing difficulties if inhaled.	0
H317 May cause an allergic skin reaction. H340 May cause genetic defects.			
	cause gener		N0,
H360FD May damage fertility. May damage the unborn child.			
H372 Cau	ises damage	to the respiratory system through prolonged or repeated e	exposure.
H410 Ver	y toxic to aqu	atic life with long lasting effects.	(Contd. on page 3)

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(Contd. of page 2) Precautionary statements Keep away from heat, hot surfaces, sparks, open flames and other ignition P210 sources. No smoking. P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor. 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. P320 Specific treatment is urgent (see on this label). In case of fire: Use CO2, powder or water spray to extinguish. P370+P378 P405 Store locked up. Dispose of contents/container in accordance with local/regional/national/ P501 international regulations.

## · 2.3 Other hazards

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- Results of PBT and vPvB assessment
- PBT: Not applicable.
- · vPvB: Not applicable.

## **SECTION 3: Composition/information on ingredients**

### · 3.1 Substances

- · CAS No. Description
- 7778-50-9 potassium dichromate
- · Identification number(s)
- EC number: 231-906-6
- · Index number: 024-002-00-6
- · SVHC

7778-50-9 potassium dichromate

# **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: Use fire extinguishing methods suitable to surrounding conditions.
- 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.
- · Additional information

Dispose of fire debris and contaminated fire fighting water in accordance with official regulations. Collect contaminated fire fighting water separately. It must not enter the sewage system.

### **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: 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
- Thorough dedusting.

Ensure good ventilation/exhaustion at the workplace. Open and handle receptacle with care. Do not eat, drink or smoke during use.

- Wash hands after handling.
- · 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. See product's label for recommended storage temperature.
- 7.3 Specific end use(s) No further relevant information available.

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

- · 8.1 Control parameters
- 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
- · Appropriate engineering controls No further data; see item 7.
- · Individual protection measures, such as 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.

Hand protection



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.

#### 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/face protection



Tightly sealed goggles

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

- · 9.1 Information on basic physical and chemical properties
- · General Information
- · Physical state
- · Colour:
- · Odour:
- · Odour threshold:
- Melting point/freezing point:
- Boiling point or initial boiling point and boiling range
- · Flammability
- Lower and upper explosion limit
- · Lower:
- · Upper:
- · Flash point:
- · Decomposition temperature:
- ·рН
- Viscosity:
- Kinematic viscosity
- · Dynamic:
- Solubility
- water at 20 °C:
- Partition coefficient n-octanol/water (log value)
- · Vapour pressure at 20 °C:
- · Density and/or relative density
- · Density at 20 °C:
- · Relative density
- · Vapour density
- 9.2 Other information
- · Appearance:
- · Form:
- Important information on protection of health and environment, and on safety.
- · Auto-ignition temperature:
- · Explosive properties:
- Molecular weight
- · Change in condition
- · Evaporation rate
- Information with regard to physical hazard
- classes
- Explosives
- · Flammable gases
- · Aerosols
- · Oxidising gases
- · Gases under pressure
- · Flammable liquids
- · Flammable solids
- Self-reactive substances and mixtures
- · Pyrophoric liquids
- Pyrophoric solids
   Solf booting substant
- · Self-heating substances and mixtures

Solid Orange Odourless Not determined. 398 °C

>500 °C Contact with combustible material may cause fire.

Not determined. Not applicable. Not determined. Not applicable.

Not applicable. Not applicable.

125 g/l

Not determined. 0 hPa

2.676 g/cm<sup>3</sup> Not determined. Not applicable.

#### Crystalline

Not determined. Product does not present an explosion hazard. 294.19 g/mol

Not applicable.

Void

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Void

Void

Void

Void

Void

May intensify fire; oxidiser.

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• Substances and mixtures, which emit flammable gases in contact with water

Oxidising liquids

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- Oxidising solids
- Organic peroxides
   Corrosive to metals
- Desensitised explosives

## **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 hazard classes as defined in Regulation (EC) No 1272/2008
- Acute toxicity
   Toxic if swallowed.

Harmful in contact with skin. Fatal if inhaled.

· LD/LC50 values relevant for classification:

Oral LD50 190 mg/kg (mouse)

- · Skin corrosion/irritation Causes severe skin burns and eye damage.
- · Respiratory or skin sensitisation
- May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause an allergic skin reaction.
- · Germ cell mutagenicity May cause genetic defects.
- · Carcinogenicity May cause cancer.
- Reproductive toxicity May damage fertility. May damage the unborn child.
- · STOT-repeated exposure
- Causes damage to the respiratory system through prolonged or repeated exposure.
- 11.2 Information on other hazards
- · Endocrine disrupting properties Substance is not listed.

## **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.
- 12.5 Results of PBT and vPvB assessment
- · PBT: Not applicable.
- · vPvB: Not applicable.
- 12.6 Endocrine disrupting properties

The product does not contain substances with endocrine disrupting properties.

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#### 12.7 Other adverse effects

- Remark: Very toxic for fish
- Additional ecological information:
- General notes:

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Water hazard class 3 (German Regulation) (Assessment by list): 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.

Very toxic for aquatic organisms

## **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.

UN3288

HAZARDOUS

dichromate)

3288 TOXIC SOLID, INORGANIC, N.O.S. (potassium dichromate), ENVIRONMENTALLY

TOXIC SOLID, INORGANIC, N.O.S. (potassium

TOXIC SOLID, INORGANIC, N.O.S. (potassium

dichromate), MARINE POLLUTANT

- · Uncleaned packaging:
- Recommendation: Disposal must be made according to official regulations.

### **SECTION 14: Transport information**

- · 14.1 UN number or ID number
- · ADR, IMDG, IATA
- 14.2 UN proper shipping name
- · ADR
- · IMDG
- · IATA
- 14.3 Transport hazard class(es)
- · ADR, IMDG



- Class
- Label
- ·IATA



- · Class
- · Label
- 14.4 Packing group • ADR, IMDG, IATA

6.1 Toxic substances. 6.1

6.1 Toxic substances.

П

6.1

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Yes

В

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· 14.5 Environmental hazards:

· Marine pollutant:

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· Special marking (ADR):

- 14.6 Special precautions for user
- Hazard identification number (Kemler code): 60
- Stowage Category
- 14.7 Maritime transport in bulk according to IMO instruments
- · Transport/Additional information:
- · ADR
- · Limited quantities (LQ)
- Transport category
- Tunnel restriction code
- UN "Model Regulation":

Not applicable.

Marine Pollutant

Symbol (fish and tree)

Symbol (fish and tree) Warning: Toxic substances.

500 g 2 D/E UN 3288 TOXIC SOLID, INORGANIC, N.O.S. (POTASSIUM DICHROMATE), 6.1, II, ENVIRONMENTALLY HAZARDOUS

Environmentally hazardous substance, solid;

### **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 -
- Seveso category
- H2 ACUTE TOXIC
- P8 OXIDISING LIQUIDS AND SOLIDS
- E1 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
- LIST OF SUBSTANCES SUBJECT TO AUTHORISATION (UK ANNEX XIV) Sunset date: 2017-09-21
- National regulations:
- Information about limitation of use: Workers are not allowed to be exposed to this hazardous material. Exceptions can be made by the authorities in certain cases.
- Substances of very high concern (SVHC) according to UK REACH
- 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.

- · 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

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(Contd. of page 9) 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 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 PB1: Persistent, Bioaccumulative and Toxic 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 Resp. Sens. 1: Respiratory sensitivation – Category 1B 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 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