POTASSIUM DICHROMATE 99.7%

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

#### 1.1. Product identifier

Product name: POTASSIUM DICHROMATE 99.7%

CAS number: 7778-50-9
EINECS number: 231-906-6
Product code: GPC8022

Synonyms: POTASSIUM BICHROMATE

## 1.2. Relevant identified uses of the substance or mixture and uses advised against

Use of substance / mixture: PC21: Laboratory chemicals.

## 1.3. Details of the supplier of the safety data sheet

Select School Supplies
The Old Granary
Berghill House
Oswestry
SY11 4PD
01691 770366



sales@selectschoolsupplies.co.uk

#### Section 2: Hazards identification

## 2.1. Classification of the substance or mixture

Classification under CLP: Ox. Sol. 2: H272; Acute Tox. 3: H301; STOT RE 1: H372; Acute Tox. 2: H330; Acute Tox. 4:

H312; Skin Corr. 1B: H314; Resp. Sens. 1: H334; Skin Sens. 1: H317; Muta. 1B: H340; Carc. 1B: H350; Repr. 1B: H360FD; STOT SE 3: H335; Aquatic Chronic 1: H410; Aquatic

Acute 1: H400

Classification under CHIP: T: R45; T: R46; T: R60; T: R61; O: R8; Xn: R21; T: R25; T+: R26; C: R34; Sens.: R42/43; T:

R48/23; N: R50/53

Most important adverse effects: May intensify fire; oxidiser. Toxic if swallowed. Harmful in contact with skin. Causes

severe skin burns and eye damage. May cause an allergic skin reaction. Fatal if inhaled.

May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause respiratory irritation. May cause genetic defects. May cause cancer. May damage fertility.

May damage the unborn child. Causes damage to organs through prolonged or

repeated exposure. Very toxic to aquatic life with long lasting effects.

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#### 2.2. Label elements

#### Label elements under CLP:

Hazard statements: 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.

H335: May cause respiratory irritation.

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.

H410: Very toxic to aquatic life with long lasting effects.

Signal words: Danger

Hazard pictograms: GHS03: Flame over circle

GHS06: Skull and crossbones

GHS08: Health hazard

GHS05: Corrosion

GHS09: Environmental











**Precautionary statements:** P201: Obtain special instructions before use.

P210: Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

P220: Keep/Store away from clothing/combustible materials.

P260: Do not breathe dust/fumes/gas/mist/vapours/spray.

P273: Avoid release to the environment.

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

P301+310: IF SWALLOWED: Immediately call a POISON CENTER or doctor.

P330: Rinse mouth.

P303+361+353: IF ON SKIN (or hair): Remove immediately all contaminated clothing.

Rinse skin with water/shower.

P304+340: IF INHALED: Remove victim to fresh air and keep at rest in a position

comfortable for breathing.

P310: Immediately call a POISON CENTER or doctor.

P305+351+338: IF IN EYES: Rinse cautiously with water for several minutes. Remove

contact lenses, if present and easy to do. Continue rinsing.

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P308+313: IF exposed or concerned: Get medical advice/attention.

P370+378: In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for

extinction.

P391: Collect spillage.

P403+233: Store in a well-ventilated place. Keep container tightly closed.

#### 2.3. Other hazards

Other hazards: This substance/mixture contains no components considered to be either persistent,

bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at

levels of 0.1% or higher.

**PBT:** This product is not identified as a PBT/vPvB substance.

## Section 3: Composition/information on ingredients

#### 3.1. Substances

Chemical identity: POTASSIUM DICHROMATE 99.7%

**CAS number:** 7778-50-9 **EINECS number:** 231-906-6

Contains: Formula: Cr2K2O7

Molecular weight: 294.18 g/mol

#### Section 4: First aid measures

#### 4.1. Description of first aid measures

Skin contact: Remove all contaminated clothes and footwear immediately unless stuck to skin. Wash

immediately with plenty of soap and water. Take immediately to hospital. Consult a

doctor.

**Eye contact:** Bathe the eye with running water for 15 minutes. Consult a doctor.

Ingestion: Do not induce vomiting. Never give anything by mouth to an unconscious person. Wash

out mouth with water. Consult a doctor.

Inhalation: Move to fresh air in case of accidental inhalation of vapours. If unconscious, check for

breathing and apply artificial respiration if necessary. Consult a doctor.

## 4.2. Most important symptoms and effects, both acute and delayed

Skin contact: Severe burns may occur.

Eye contact: There may be severe pain.

Ingestion: No data available.Inhalation: No data available.

Delayed / immediate effects: No data available.

#### 4.3. Indication of any immediate medical attention and special treatment needed

Immediate / special treatment: No data available.

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#### Section 5: Fire-fighting measures

#### 5.1. Extinguishing media

Extinguishing media: Dry chemical powder. Dry sand.

#### 5.2. Special hazards arising from the substance or mixture

Exposure hazards: Not applicable.

#### 5.3. Advice for fire-fighters

Advice for fire-fighters: Wear self-contained breathing apparatus.

#### Section 6: Accidental release measures

## 6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions: Wear respiratory protection. Ensure adequate ventilation. Evacuate the area

immediately. Avoid dust formation. Avoid breathing vapours, mist or gas.

For personal protection see section 8.

#### 6.2. Environmental precautions

**Environmental precautions:** Do not discharge into drains or rivers.

#### 6.3. Methods and material for containment and cleaning up

Clean-up procedures: Sweep up and shovel. Keep in suitable, closed containers for disposal. Contain

spillage, and then collect with an electrically protected vacuum cleaner or by wet-

brushing and place in container for disposal according to local regulations (see section

13).

## 6.4. Reference to other sections

Reference to other sections: Refer to section 13 of SDS.

#### Section 7: Handling and storage

#### 7.1. Precautions for safe handling

Handling requirements: Avoid exposure - obtain special instructions before use. Avoid contact with skin and

eyes. Avoid formation of dust and aerosols.

Provide appropriate exhaust ventilation at places where dust is formed.

For precautions see section 2.2. Keep away from sources of ignition - No smoking. Take

measures to prevent the build up of electrostatic charge.

## 7.2. Conditions for safe storage, including any incompatibilities

**Storage conditions:** Store in cool, well ventilated area. Keep container tightly closed.

Suitable packaging: Not applicable.

## 7.3. Specific end use(s)

Specific end use(s): No special requirement.

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## Section 8: Exposure controls/personal protection

#### 8.1. Control parameters

## Workplace exposure limits:

## Respirable dust

State	8 hour TWA	15 min. STEL	8 hour TWA	15 min. STEL
EU	0.05 mg/m3	-	-	-

#### 8.1. DNEL/PNEC Values

**DNEL / PNEC** No data available.

#### 8.2. Exposure controls

Engineering measures: Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately

after handling the product

Respiratory protection: Where risk assessment shows air-purifying respirators are appropriate use a full-face

particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under

appropriate government standards such as NIOSH (US) or CEN (EU).

Hand protection: Full contact

Material: Nitrile rubber

Minimum layer thickness: 0.11 mm

Break through time: 480 min Splash contact

Material: Nitrile rubber

Minimum layer thickness: 0.11 mm

Break through time: 480 min Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices.

Wash and dry hands.

Eye protection: Face-shield. Safety glasses. Use equipment for eye protection tested and approved

under appropriate government standards such as NIOSH (US) or EN 166(EU).

**Skin protection:** Complete suit protecting against chemicals. The type of protective equipment must be

selected according to the concentration and amount of the dangerous substance at the

specific workplace.

Environmental: Do not let product enter drains. Prevent from entering in public sewers or the immediate

environment.

## Section 9: Physical and chemical properties

## 9.1. Information on basic physical and chemical properties

State: Crystalline

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Melting point/range°C: 398 °C - lit. Part.coeff. n-octanol/water: log Pow: 5

**Relative density:** 2.680 g/cm3 **pH:** 3.5 - 5.0 at 29.4g/l

9.2. Other information

Other information: Not applicable.

## Section 10: Stability and reactivity

## 10.1. Reactivity

Reactivity: No data available.

## 10.2. Chemical stability

Chemical stability: Stable under normal conditions.

## 10.3. Possibility of hazardous reactions

Hazardous reactions: No data available.

## 10.4. Conditions to avoid

Conditions to avoid: No data available.

## 10.5. Incompatible materials

Materials to avoid: Organic materials. Powdered metals Do not store near acids. Hydrazine.

## 10.6. Hazardous decomposition products

Haz. decomp. products: In combustion emits toxic fumes of potassium oxides. In combustion emits toxic fumes

of chromium oxides.

## **Section 11: Toxicological information**

## 11.1. Information on toxicological effects

#### Relevant hazards for substance:

Hazard	Route	Basis	
Acute toxicity (ac. tox. 4)	DRM	Based on test data	
Acute toxicity (ac. tox. 3)	ING	Based on test data	
Acute toxicity (ac. tox. 2)	INH	Based on test data	
Skin corrosion/irritation	DRM	Based on test data	
Serious eye damage/irritation	OPT	Based on test data	
Respiratory/skin sensitisation	INH DRM	Based on test data	
Germ cell mutagenicity		Based on test data	
Carcinogenicity		Based on test data	
Reproductive toxicity		Based on test data	
STOT-single exposure	INH	Based on test data	

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STOT-repeated exposure	-	Based on test data
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#### Symptoms / routes of exposure

Skin contact: Severe burns may occur.

Eye contact: There may be severe pain.

Ingestion: No data available.Inhalation: No data available.

Delayed / immediate effects: No data available.

Other information: Not applicable.

## Section 12: Ecological information

## 12.1. Toxicity

## **Ecotoxicity values:**

Species	Test	Value	Units
FISH	96H LC50	0.131	mg/l
DAPHNIA	48H EC50	0.62	mg/l
ALGAE	48H EC50	0.31	mg/l

## 12.2. Persistence and degradability

Persistence and degradability: Not applicable.

## 12.3. Bioaccumulative potential

Bioaccumulative potential: No data available.

## 12.4. Mobility in soil

Mobility: No data available.

#### 12.5. Results of PBT and vPvB assessment

PBT identification: This product is not identified as a PBT/vPvB substance.

## 12.6. Other adverse effects

Other adverse effects: Very toxic to aquatic organisms.

## Section 13: Disposal considerations

#### 13.1. Waste treatment methods

Disposal operations: Offer surplus and non-recyclable solutions to a licensed disposal company. Waste

material must be disposed of in accordance with the Directive on waste 2008/98/EC as

well as other national and local regulations.

Recovery operations: Not applicable.

Disposal of packaging: Dispose of as unused product.

**NB:** The user's attention is drawn to the possible existence of regional or national

regulations regarding disposal.

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#### **Section 14: Transport information**

14.1. UN number

UN number: UN3086

14.2. UN proper shipping name

Shipping name: TOXIC SOLID, OXIDIZING, N.O.S.

14.3. Transport hazard class(es)

Transport class: 6.1 (5.1)

14.4. Packing group

Packing group: ||

14.5. Environmental hazards

Environmentally hazardous: Yes Marine pollutant: No

14.6. Special precautions for user

Tunnel code: C/E
Transport category: 2

# Section 15: Regulatory information

# 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

**Specific regulations:** This safety datasheet complies with the requirements of Regulation (EC) No.

1907/2006.

15.2. Chemical Safety Assessment

Chemical safety assessment: A chemical safety assessment has not been carried out for the substance or the mixture

by the supplier.

#### **Section 16: Other information**

#### Other information

Other information: This safety data sheet is prepared in accordance with Commission Regulation (EU) No

453/2010.

\* indicates text in the SDS which has changed since the last revision.

Phrases used in s.2 and 3: 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.

H335: May cause respiratory irritation.

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H340: May cause genetic defects <state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard>.

H350: May cause cancer <state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard>.

H360FD: May damage fertility. May damage the unborn child.

H372: Causes damage to organs <or state all organs affected, if known> through prolonged or repeated exposure <state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard>.

H410: Very toxic to aquatic life with long lasting effects.

R8: Contact with combustible material may cause fire.

R21: Harmful in contact with skin.

R25: Toxic if swallowed.

R26: Very toxic by inhalation.

R34: Causes burns.

R42/43: May cause sensitisation by inhalation and skin contact.

R45: May cause cancer.

R46: May cause heritable genetic damage.

R48/23: Toxic: danger of serious damage to health by prolonged exposure through inhalation.

R50/53: Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

R60: May impair fertility.

R61: May cause harm to the unborn child.

Legal disclaimer: The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. This company shall not be held liable for any damage resulting from handling or from contact with the above product.