

# SOUTHERN GROUP LABORATORY LIMITED

## SAFETY DATA SHEET

<b>SECTION 1.</b>	<b>IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING</b>
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### 1.1 Product identifier

**Product name** 4% w/v Potassium dichromate

**SGL Product code** 3452

This product is a mixture.

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

**Identified uses** Reagent for laboratory analysis

**Uses advised against** No information on uses against available.

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

**Supplier** Southern Group Laboratory,  
Cavendish Courtyard, Sallow Road,  
Weldon North Industrial Estate,  
Corby, Northants,  
United Kingdom.  
NN17 5JX.

TEL: +44(0) 1536 403815

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EMAIL: [info@sglab.co.uk](mailto:info@sglab.co.uk)

Available 9am-5pm (UK time) Mon to Fri except UK public holidays

**Emergency telephone** NHS Direct: 0845 4647 (England and Wales)  
NHS 24: 08454 24 24 24 (Scotland)

<b>SECTION 2. HAZARDS IDENTIFICATION</b>
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### 2.1 Classification of the substance or mixture

Classification according to regulation (EC) No 1272/2008

#### Physical hazards

Based on available data, no classification met

#### Health hazards

Carcinogenicity (category 1B): H350  
Germ cell mutagenicity (category 1B): H340  
Reproductive toxicity (category 1B): H360  
Acute Toxicity – Inhalation (category 4): H332  
Skin Irritation (category 2): H315  
Skin Sensitisation (category 1): H317  
Specific Target Organ Toxicity (STOT), Repeated Exposure (RE), (category 2): H373  
Respiratory Sensitisation (category 1): H334

#### Environmental hazards

Hazardous to the Aquatic Environment, Chronic (category 2): H411

For the full text of the H-Statements mentioned see Section 16.

### 2.2. Label elements

#### Pictogram



#### Signal word

Danger

#### Hazard statements

H350: May cause cancer  
H340: May cause genetic defects  
H360: May damage fertility or the unborn child  
H332: Harmful if inhaled  
H315: Causes skin irritation  
H317: May cause an allergic skin reaction  
H373: May cause damage to organs through prolonged or repeated exposure  
H334: May cause allergy or asthma symptoms or breathing difficulties if inhaled  
H411: Toxic to aquatic life with long lasting effects

**Precautionary statements**

P201: Obtain special instructions before use.  
P202: Do not handle until all safety precautions have been read and understood.  
P260: Do not breathe dust/fume/gas/mist/vapours/spray.  
P264: Wash hands thoroughly after handling.  
P271: Use only outdoors or in a well-ventilated area.  
P272: Contaminated work clothing should not be allowed out of the workplace.  
P273: Avoid release to the environment.  
P280: Wear protective gloves/protective clothing/eye protection/ face protection.  
P281: Use personal protective equipment as required.  
P285: In case of inadequate ventilation wear respiratory protection.  
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.  
P308+P313: IF exposed or concerned: Get medical advice/attention.  
P312: Call a POISON CENTER or doctor / physician if you feel unwell.  
P333+P313: If skin irritation or rash occurs: Get medical advice/attention.  
P342+P311: If experiencing respiratory symptoms: Call a POISON CENTER or doctor / physician.  
P362: Take off contaminated clothing and wash before reuse.  
P391: Collect spillage.  
P405: Store locked up.  
P501: Dispose of contents/container in accordance with national regulations.

**2.3. Other hazards**

None

<b>SECTION 3.</b>	<b>COMPOSITION/INFORMATION ON INGREDIENTS</b>
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**3.1. Mixtures**

Name	EC No.	CAS-No.	Concentration	Classification
Potassium dichromate	231-906-6	7778-50-9	4% w/v	Oxidising solid. 2;H272 Carcinogenicity. 1B; H350 Germ cell mutagenicity. 1B; H340 Reproductive tox.1B; H360FD Acute tox (inhalation). 2; H330 Acute tox (oral). 3; H301 Acute tox (dermal). 4; H312 STOT, RE. 1; H372 STOT, SE. 3 (vascular); H335 Skin corrosion. 1B; H314 Respiratory sensitisation. 1; H334 Skin sensitisation. 1; H317 Hazardous to aquatic environment, chronic. 1; H410

**Composition comments**      The data shown are in accordance with Regulation (EC) No. 1272/2008.

<b>SECTION 4.</b>	<b>FIRST-AID MEASURES</b>
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**4.1 Description of first aid measures**

**Inhalation**      Immediately remove from exposure to fresh air and keep at rest in a position comfortable for breathing. If experiencing respiratory symptoms call a POISON CENTER or doctor/physician.

**Ingestion**      Do NOT induce vomiting. Wash out mouth thoroughly with water. Give nothing to eat or drink. Immediately call a POISON CENTER or doctor/physician.

**Skin contact**      Wash off thoroughly with plenty of soap and water. Remove contaminated clothing immediately and wash before re-use. If skin irritation or rash occurs get medical advice and/or attention.

**Eye Contact**      Remove contact lenses, if present and easy to do. Immediately irrigate thoroughly with water for at least 15 minutes. Protect uninjured eye. Obtain medical advice and/or attention.

**Self Protection of the first aider**      Wear gloves (nitrile rubber recommended). Wash hands thoroughly after handling.

**4.2 Most important symptoms and effects, both acute and delayed**

None known.

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

None known.

**Notes for doctor** No specific recommendations.

<b>SECTION 5.</b>	<b>FIRE – FIGHTING MEASURES</b>
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#### **5.1. Extinguishing media**

**Suitable extinguishing media** Water fog, foam, carbon dioxide (CO<sub>2</sub>), dry powder

**Unsuitable extinguishing media** None known

Product is not combustible.

Prevent fire fighting media from entering watercourses or ground water.

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

**Hazardous combustion products** Toxic products may be liberated by fire.

#### **5.3. Advice for firefighters**

**Protective actions during firefighting** Wear self contained breathing apparatus (SCBA) and prevent skin contact.

<b>SECTION 6.</b>	<b>ACCIDENTAL RELEASE MEASURES</b>
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#### **6.1. Personal precautions, protective equipment and emergency procedures**

Wear personal protective clothing as described in Section 8 of this safety data sheet. Avoid breathing vapours or aerosols. Avoid contact. Provide adequate ventilation.

#### **6.2. Environmental precautions**

Must not be released into the environment.

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

Collect spillage using suitable non-combustible material. Seal material in closed container avoiding the generation of aerosols or vapours. Wear personal protective clothing as recommended in Section 8. Cover drains to avoid releasing into environment. Dispose as recommended in Section 13.

#### **6.4. Reference to other sections**

Section 8 for protective measures.  
Section 13 for disposal considerations.

<b>SECTION 7.</b>	<b>HANDLING AND STORAGE</b>
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**7.1 Precautions for safe handling**

Wear personal protective clothing. Avoid contact with skin, eyes and clothing. Avoid formation of aerosols or vapours. Ensure adequate ventilation. Change contaminated clothing. Wash hands after working with material.

**7.2 Conditions for safe storage, including any incompatibilities**

Store according to label requirements. Keep closed.

**7.3 Specific end use(s)**

Use in laboratories.

<b>SECTION 8.</b>	<b>EXPOSURE CONTROLS/PERSONAL PROTECTION</b>
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**8.1 Control parameters**

Component	CAS No	Long Term Exposure Limit (8 hr TWA Reference Period)	Short Term Exposure (15 Min Reference Period)	Basis	Comments
Potassium dichomate	7778-50-9	0.05 mg/m <sup>3</sup>	Not Stated	UK. EH40 Workplace Exposure Limits	Chromium (VI) compound (as Cr)

For those substances for which no short-term limit is specified, it is recommended that a figure of three times the long-term limit be used as a guideline for controlling short-term peaks in exposure.

## 8.2 Exposure controls

### Engineering measures

Avoid inhalation of vapours, sprays, mists. Handle in well ventilated area. Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product.

### Protective equipment



### Eye/face protection

Safety goggles (tightly fitting) complying with Standard EN166.

### Hand protection

Disposable nitrile rubber gloves complying with EC Directive 89/686/EEC and Standard EN374  
Glove thickness of 0.11mm  
See manufacturer's recommendations for break through times  
Material tested: Not applicable

**Other skin and body protection** Long sleeved clothing.

### Hygiene measures

Wash hands immediately after use.

### Respiratory protection

Required if vapour/aerosols are generated. Filter type P3 (according to DIN 3181) for solid and liquid particles of very toxic substances.

<b>SECTION 9.</b>	<b>PHYSICAL AND CHEMICAL PROPERTIES</b>
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**9.1. Information on basic physical and chemical properties**

<b>Appearance</b>	Liquid
<b>Colour</b>	Orange
<b>Odour</b>	No data available
<b>Odour threshold</b>	No data available
<b>pH</b>	No data available
<b>Melting point/freezing point</b>	No data available
<b>Initial boiling point and boiling range</b>	No data available
<b>Flash point</b>	No data available
<b>Evaporation rate</b>	No data available
<b>Flammability (solid, gas)</b>	No data available
<b>Upper/lower flammability or explosive limits</b>	
<b>Lower explosion limit (VOL-%)</b>	No data available
<b>Upper explosion limit (VOL-%)</b>	No data available
<b>Vapour pressure</b>	No data available
<b>Vapour density</b>	No data available
<b>Relative density</b>	No data available
<b>Solubility(ies)</b>	No data available
<b>Partition coefficient: n-octanol/water</b>	No data available
<b>Auto-ignition temperature</b>	No data available
<b>Decomposition temperature</b>	No data available
<b>Viscosity</b>	No data available
<b>Explosive properties</b>	No data available
<b>Oxidising properties</b>	No data available

**9.2. Other information**

None

<b>SECTION 10.</b>	<b>STABILITY AND REACTIVITY</b>
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**10.1 Reactivity**

No data available.

**10.2 Chemical stability**

No data available.

**10.3 Possibility of hazardous reactions**

No data available.

**10.4 Conditions to avoid**

No data available.



### **10.5 Incompatible materials**

No data available.

### **10.6 Hazardous decomposition products**

No data available.

<b>SECTION 11. TOXICOLOGICAL INFORMATION</b>
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### **11.1 Information on toxicological effects**

The acute toxicity data is based on the mixture.

<b>Acute oral toxicity</b> <b>ATE<sub>mix</sub></b> <b>Method</b>	Classification criteria are not met. >2000 mg/kg Calculation
<b>Acute dermal toxicity</b> <b>ATE<sub>mix</sub></b> <b>Method</b>	Classification criteria are not met. >2000 mg/kg Calculation
<b>Acute inhalation toxicity</b> <b>ATE<sub>mix</sub> (vapour)</b> <b>Method</b>	Acute Tox 4: H332 Harmful if inhaled. >10 - <20 mg/l Calculation
<b>Acute inhalation toxicity</b> <b>ATE<sub>mix</sub> (dust/mist)</b> <b>Method</b>	Acute Tox 4: H332 Harmful if inhaled. >1 - <5 mg/l Calculation
<b>Skin corrosion/irritation</b>	Skin Irritation (category 2): H315 Causes skin irritation
<b>Serious eye damage/irritation</b>	Mixture may cause eye damage
<b>Respiratory or skin sensitisation</b>	Skin Sensitisation (category 1): H317 May cause an allergic skin reaction Respiratory Sensitisation (category 1): H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled
<b>Germ cell mutagenicity</b>	Germ cell mutagenicity (category 1B): H340 May cause genetic defects
<b>Carcinogenicity</b>	Carcinogenicity (category 1B): H350 May cause cancer
<b>Reproductive toxicity</b>	Reproductive toxicity (category 1B): H360 May damage fertility or the unborn child
<b>STOT single exposure</b>	No data available

**STOT repeated exposure**

Specific Target Organ Toxicity (STOT), Repeated Exposure (RE), (category 2): H373 May cause damage to organs through prolonged or repeated exposure

**Aspiration hazard**

No data available

**11.2 Additional information**

No data available.

<b>SECTION 12.</b>	<b>ECOLOGICAL INFORMATION</b>
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**12.1 Toxicity**

Hazardous to the Aquatic Environment, Chronic (category 2): H411 Toxic to aquatic life with long lasting effects.

M (chronic) factor 1.

**12.2 Persistence and degradability**

No information available.

**12.3 Bioaccumulative potential**

No information available.

**12.4 Mobility in soil**

No information available.

**12.5 Results of PBT and vPvB assessment**

No information available.

**12.6 Other adverse effects**

No information available.

<b>SECTION 13.</b>	<b>DISPOSAL CONSIDERATIONS</b>
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**13.1 Waste treatment methods**

Dispose of in accordance with applicable local and national regulations.

<b>SECTION 14.</b>	<b>TRANSPORT INFORMATION</b>
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**Land transport (ADR/RID) / Sea transport (IMDG) / Air transport (ICAO-TI/IATA-DGR)**

- 14.1 UN number** 3287
- 14.2 UN proper shipping name** TOXIC LIQUID, INORGANIC, N.O.S. (POTASSIUM DICHROMATE)
- 14.3 Transport hazard class(es)** 6.1
- 14.4 Packing group** III
- 14.5 Environmental hazards** Yes
- 14.6 Special precautions for user** Yes

Tunnel restriction code E.

**14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**

Not applicable, packaged goods.

<b>SECTION 15.</b>	<b>REGULATORY INFORMATION</b>
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**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

EU legislation Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of Substances and mixtures (as amended).

**15.2 Chemical safety assessment**

No Chemical Safety Assessment has been carried out for this substance/mixture by the supplier.

<b>SECTION 16.</b>	<b>OTHER INFORMATION</b>
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**16.1 Relevant H- and EUH-phrases (number and full text)**

- H350: May cause cancer
- H340: May cause genetic defects
- H360: May damage fertility or the unborn child
- H332: Harmful if inhaled
- H315: Causes skin irritation
- H317: May cause an allergic skin reaction
- H373: May cause damage to organs through prolonged or repeated exposure
- H334: May cause allergy or asthma symptoms or breathing difficulties if inhaled
- H411: Toxic to aquatic life with long lasting effects

### **16.2 Additional information**

The above information is based on present knowledge, but does not purport to be inclusive and should only be used as a guide. Southern Group Laboratory shall not be held liable for any damage resulting from handling or from contact with the above product.

The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made up material.

### **16.3 Revision summary**

**Changes to this issue** Updated to revise Hazardous to Aquatic Environment, Chronic category from 1 to 2 including H and P statement updates.  
Updated to correct minor typographical errors and formatting.

Revision Date: 15.05.2017

Issue No: 02

**END OF SAFETY DATA SHEET**