

Safety Data Sheet	Issue no.: 2	Issue Date: 19.09.25	Page 1 of 6	SDS 29
POTASSIUM DICHROMATE SOLUTION				

Section 1 – Chemical Product and Company Identification

1.1. Product identifier:

Potassium dichromate 2.5% solution.

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

To be used as a sample preservative for analytical testing.

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



ALS Laboratories (UK) Limited

Torrington Avenue,
Coventry, CV4 9GU

1.4. Emergency telephone number

T: +44 (0)24 7642 1213

F: +44 (0)24 7685 6575

Section 2 – Hazards Identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 as amended by GB-CLP Regulation, UK SI 2019/720, and UK SI 2020/1567

Acute Inhalation Toxicity - Dusts and Mists - Category 4

Respiratory Sensitization - Category 1

Skin Sensitization - Category 1

Germ Cell Mutagenicity - Category 1B

Carcinogenicity - Category 1B

Reproductive Toxicity - Category 1B

Chronic aquatic toxicity - Category 3

2.2. Label elements

Pictograms



Signal word: Danger

Hazard statement(s)

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H317 - May cause an allergic skin reaction
 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
 H412 - Harmful to aquatic life with long lasting effects

Precautionary statement(s):

P273 - Avoid release to the environment
 P201 - Obtain special instructions before use
 P280 - Wear protective gloves
 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

Supplemental Hazard Statements: None.

Reduced labelling for packages where contents do not exceed 125ml.

Pictograms



Signal word: Danger

Hazard statement(s)

H340 - May cause genetic defects
 H350 - May cause cancer
 H360FD - May damage fertility. May damage the unborn child

2.3. Other hazards – None.

Section 3 – Composition, Information on Ingredients

3.2. Mixtures

Component	Hazards	Concentration
Water	None.	97.5%
Potassium dichromate	H317, H334, H340, H350, H360FD, H412.	2.5%

Section 4 – First Aid Measures

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4.1. Description of first aid measures

Eyes: Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Remove contact lenses. Get medical aid.

Skin: Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Get medical aid if irritation develops or persists.

Ingestion: If victim is conscious and alert, give 2-4 cupfuls of milk or water. Get medical aid.

Inhalation: Remove from exposure and move to fresh air immediately. If breathing is difficult, get medical aid.

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

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11.

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

No data available.

Section 5 – Fire Fighting Measures

5.1. Extinguishing media: Use extinguishing media most appropriate for the surrounding fire.

5.2. Special hazards arising from the substance or mixture: During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion – Potassium oxides. Chromium oxides.

5.3. Advice for firefighters: As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear.

Section 6 – Accidental Release Measures

6.1. Personal precautions, protective equipment and emergency procedures: Protect skin and eyes from spillages.

6.2. Environmental precautions: Do not let product enter drains.

6.3. Methods and materials for cleaning up: Use a suitable absorbent. Collect into a container, close lid.

6.4. Reference to other sections. See suitable PPE in section 8.

Section 7 – Handling and Storage

7.1 Precautions for safe handling

Avoid inhalation of vapour or mist. Wash hands thoroughly after handling. Avoid contact with skin and eyes.

For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities.

Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Store in cool place.

7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated.

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Section 8 – Exposure Controls, Personal Protection

8.1. Control parameters: TWA 0.01mg/m³. STEL 0.03mg/m³. UK. EH40.

8.2. Exposure controls: Wear appropriate protective eyeglasses. Wear appropriate protective gloves such as nitrile and clothing to prevent skin exposure.

Splash contact.

Material: Nitrile rubber

Minimum layer thickness: 0.11 mm

Break through time: 480 min.

Section 9 – Physical and Chemical Properties

9.1. Information on basic physical and chemical properties

Physical State: Liquid.

Colour: Clear: Orange.

Odour: Odourless.

pH: 4.1.

Vapour Pressure & Density: Not available.

Solubility: Soluble in water.

9.2. Other information

Section 10 – Stability and Reactivity

10.1. Reactivity

No data available.

10.2. Chemical stability

Stable under normal temperatures and pressures.

10.3. Possibility of hazardous reactions

Hazardous Polymerization: Has not been reported.

10.4. Conditions to avoid

Strong heating.

10.5. Incompatible materials

No data available.

10.6. Hazardous decomposition products

No data available.

Section 11 – Toxicological Information

11.1. Information on toxicological effects:

Potassium dichromate: Oral, estimate: 2000 mg/kg.

Possible germ cell mutagen.

Possible carcinogen.

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May harm the unborn child.

May impair fertility.

Mixture may cause damage to organs through prolonged or repeated exposure. - Cardio-vascular system

Section 12 – Ecological Information

12.1. Toxicity: No data available.

12.2. Persistence and degradability: No data available.

12.3. Bioaccumulative potential: No data available.

12.4. Mobility in soil: No data available.

12.5. Results of PBT and vPvB assessment: 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.

12.6. Other adverse effects:

Toxicity to fish LC50 - Danio rerio (zebra fish) - 58.5 mg/l - 96 h Remarks: (ECHA)

Toxicity to daphnia and other aquatic invertebrates EC50 - Daphnia magna (Water flea) - 0.035 mg/l - 48 h Remarks: (ECHA)

Toxicity to algae static test ErC50 - Selenastrum capricornutum (green algae) - 0.233 mg/l - 72 h Remarks: (ECHA)

Toxicity to bacteria IC50 - activated sludge - 30 mg/l - 3 h Remarks: (in analogy to similar products) (ECHA)

Toxicity to fish (Chronic toxicity) NOEC - Pimephales promelas (fathead minnow) - 1.1 mg/l - 7d Remarks: (ECHA)

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) NOEC - Daphnia magna (Water flea) - 18 mg/l - 21 d Remarks: (ECHA)

Section 13 – Disposal Considerations

13.1. Waste treatment methods

Reuse or reprocess if possible. Do not dump into any sewers, on the ground, or into any body of water. Any disposal practice must follow regulations (contact environmental agency for specific rules). Waste characterisation and compliance with applicable laws are the responsibility of the waste generator.

Section 14 – Transport Information

14.1. UN number: Not regulated.

14.2. UN proper shipping name: Not regulated.

14.3. Transport hazard class(es): Not regulated.

14.4. Packing group: Not regulated.

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14.5. Environmental hazards: Not regulated.

14.6. Special precautions for user: Not regulated.

Section 15 – Regulatory Information

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

CDG (Carriage of Dangerous Goods) Regulations

CLP (Chemicals, Labelling and Packaging) Regulations.

CoSHH (Control of Substances Hazardous to Health) regulations

Hazardous Waste Regulations

PPE Regulations

Workplace Exposure Limits EH40

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII) : potassium dichromate.

After the sunset date the use of this substance requires either an authorisation or can only be used for exempted uses, e.g. use in scientific research and development which includes routine analytics or use as intermediate.

15.2. Chemical safety assessment: For this product a chemical safety assessment was not carried out.

Section 16 – Other Information

16.1 Other information:

Written by Paul Talbot.

16.2 Date of the latest revision of the SDS:

See document header.