



SAFETY DATA SHEET

1. Identification of the substance/preparation and of the company/undertaking

Identification of the product

Catalogue No: 19804

ID No.: 1602500

Product name: **Potassium chromate solution**

Manufacturer/supplier identification

Company: BDH Laboratory Supplies, Poole, Dorset, BH15 1TD, England
Telephone : +44 (0) 1202 660444 Telefax : +44 (0) 1202 666856

Emergency telephone No.: +44 (0) 1202 669700

2. Composition/information on ingredients

Chemical characterization

Solution in water

Product name: Potassium chromate solution

CAS number: Not applicable

EC-No.: 232-140-5

Hazardous ingredients:

Potassium chromate	5%	
CAS number:	7789-00-6	EC-No.: 232-140-5
Symbol:	T N	
R-phrases:	R49-46-36/37/38-43-50/53	
S-phrases:	S53A-45-60-61	
Carcinogen, Category 2		
Mutagen, Category 2		

3. Hazards identification

May cause cancer by inhalation. May cause heritable genetic damage. May cause sensitization by skin contact. Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

4. First aid measures

Eye contact: Irrigate thoroughly with water for at least 10 minutes. OBTAIN MEDICAL ATTENTION.

Inhalation: Remove from exposure, rest and keep warm. In severe cases obtain medical attention.

Skin contact: Wash off skin thoroughly with water. Remove contaminated clothing and wash before re-use. Unless contact has been slight, OBTAIN MEDICAL ATTENTION.

Ingestion: Wash out mouth thoroughly with water and give plenty of water to drink. OBTAIN MEDICAL ATTENTION.

5. Fire-fighting measures

Special risks:

May ignite combustible material.

Suitable extinguishing media:

Water spray

6. Accidental release measures

Wear appropriate protective clothing.

Absorb on an inert absorbent, (e.g. BDH Spillage absorption granules), transfer to a suitable container and arrange removal by disposal company. Wash site of spillage thoroughly with water and detergent.

For large spillages liquids should be contained with sand or earth and both liquids and solids transferred to salvage containers. Any residues should be treated as for small spillages.

7. Handling and storage

Handling:

Avoid contact with skin and eyes. Change contaminated clothing. Wash hands after working with substance. Do not empty into drains.

Storage:

Store at room temperature (15 to 25°C recommended). Keep well closed and protected from direct

sunlight and moisture. Store away from combustible materials.

8. Exposure controls/personal protection

As appropriate to the situation and the quantity handled.

Respirator: Not applicable

Ventilation: Not applicable

Gloves: Rubber or plastic

Eye Protection: Goggles or face-shield

Other Precautions: Plastic apron, sleeves, boots - if handling large quantities

9. Physical and chemical properties

Form: liquid

Colour: yellow

Odour: odourless

Melting temperature: Not available

Boiling temperature: Not available

Density(g/ml): Not available

Solubility in water: Miscible in all proportions

10. Stability and reactivity

Stable.

Substances to be avoided

oxidizable substances.

11. Toxicological information

Chromium (VI) is highly toxic. It is absorbed via both the lungs as well as the gastrointestinal tract. Being strong oxidants, chromates/ bichromates can cause burns and ulcerations on the skin and mucous membranes and also irritations in the upper respiratory tract. Poor tendency for ulcers to heal following penetration of substance into the wound. In predisposed persons the substance rapidly leads to sensitization and allergic reactions of the respiratory tract (risk of pneumonia!) and damage to nasal mucous membranes (under given circumstances perforation of the septum). After ingestion: severe symptoms in the gastrointestinal tract such as bloody diarrhoea, vomiting (aspiration pneumonia!) spasms, circulatory collapse, unconsciousness, formation of methaemoglobin. Absorption may result in hepatic and renal damage. Inhalable chromium(VI) compounds have clearly shown themselves to be carcinogenic in animal experiments. Lethal dose (man): 0.5 g. Antidotes: chelating agents such as EDTA, DMPS (Demaval(R)).

Further data

No data

Known carcinogen. Evidence of mutagenic effects.

12. Ecological information

Do not allow to enter drinking water supplies, waste water, or soil!

The following applies to chromium ions in general: biological effects: fish: toxic from 52 mg/l up; LC50: 29 mg/l; algae: toxic from 5 mg/l up; arthropods: Daphnia toxic from 0.32 mg/l up, calculated as sodium chromate.

13. Disposal considerations

Chemical residues are generally classified as special waste, and as such are covered by regulations which vary according to location. Contact your local waste disposal authority for advice, or pass to a chemical disposal company. Rinse out empty containers thoroughly before returning for recycling.

14. Transport information

UN-No.: Not subject to transport regulations.

IMO:

IATA:

Correct technical name: NON-RESTRICTED

ADR/RID:

IMDG class:

Packaging group:

Packaging group:

15. Regulatory information

Labelling according to EC directives

Symbol: T N Toxic. Dangerous for the environment.

R-phrases: R49-46-43-52/53

May cause cancer by inhalation. May cause heritable genetic damage. May cause sensitization by skin contact. Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

S-phrases: S53A-45-60-61

Restricted to professional users. Attention - Avoid exposure - obtain special instructions before use. In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). This material and its container must be disposed of as hazardous waste. Avoid release to the environment. Refer to special instructions/Safety data sheets.

EC-No.: 232-140-5

Carcinogen, Category 2

Local Regulations

Within the UK, the use of this material must be assessed under the Control of Substances Hazardous to Health (COSHH) regulations.

UK Exposure Limits: MEL, Chromium(VI) compounds (as Cr):
Long term: 0.05 mg/m³

16. Other information

Reason for alteration: Changes in Section : 14, 15
Revised.

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