



SAFETY DATA SHEET

1. Identification of the preparation and of the company

Catalogue No. : P 22071
Product Name : POTASSIUM CHROMATE SOLUTION 5% W /V

Manufacturer/supplier identification

Company : NICE Chemicals (P) Ltd., Cochin, India
Tel - 0484 2800212, 2802755

Contact for information : Tel. No.- 0484 2802536 Fax : 0484 2802483
Emergency Telephone No. : 0484 2801583 Tele fax No. : 0484 2802483

2. Composition/Information on Ingredients

Synonyms : Potassium Chromate And Water

CAS-No : Ec-Index No. : 024-006-00-8
EC-No. : 232-140-5

3. Hazards Index

May cause cancer by inhalation. May cause heritable genetic damage. Irritating to eyes, respiratory system and skin. May cause sensitization at skin contact. Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Restricted to professional users. Attention - Avoid exposure - obtain special instructions before use.

4. First Aid Measures

After inhalation : Fresh air. Summon doctor.

After skin contact : Wash off with plenty of water. Remove contaminated clothing. Carefully clean wounds and cover with sterile dressing material.

After eye contact : Rinse out with plenty of water with the eyelid held wide open. Summon eye specialist.

After swallowing : make victim drink plenty of water, induce vomiting, summon doctor. Keep airways free. Subsequently administer, activated charcoal (20-40 g in 10% slurry). Symptomatic treatment.

5. Fire-fighting measures

Suitable extinguishing media : Water, foam.

Special risks : Fire-promoting. Keep away from combustible materials. Development of hazardous combustion gases or vapours possible in the event of fire.

Special protective equipment for fire fighting : Do not stay in dangerous zone without suitable chemical protection clothing & self - contaminated breathing apparatus.



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Other information : Non-combustible. Prevent fire- fighting water from entering surface water or ground- water.

6. Accidental release Measures

Person - related precautionary measures : Avoid gene- ration of dusts; do not inhale dusts. Avoid substance contact.

Environmental-protection measures : Do not allow to enter sewerage system.

Procedures for cleaning/absorption : Carefully take up dry. Forward for disposal. Clean up affected area.

7. Handling and Storage

Handling - No further requirements.

Storage - Tightly closed in a well-ventilated place.
Accessible only for authorised persons.

Storage temperature : No restrictions.

8. Exposure controls/ Personal protection

Speciic control parameter :
(Max. workplace conc.) Chromium (VI) compounds
(as dusts/aerosoles) : Risk of sensitization

Respiratory protection : required when dusts are generated.

Eye Protection : required

Hand Protection : required

Protective clothing should be selected specifically for the working place, depending on concentration and quantity of the hazardous substances handled. The resistance of the protective clothing to chemicals should be ascertained with the respective supplier.

Industrial hygiene : Immediately change contaminated clothing. Apply skin-protective barriere cream. Wash hands after working with substance. Under no circumstances eat or drink at workplace.

9. Physical and chemical properties

Form	:	Clear Liquid
Colour	:	Yellow
Odour	:	Odourless
pH value at 20° C	:	8.6 - 9.8
Melting temperature	:	~ 970° C
Boiling temperature	:	Not available
Ignition temperature	:	Not available
Flash Point	:	Not available
Explosion limit lower	:	Not available



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upper	:	Not available
Relative vapour density	:	Not available
Density	:	Not available
Bulk density	:	~ 1400 Kg/m ³
Solubility in Water (20° C)	:	630 gm/lit.

10. Stability and reactivity

Conditions to be avoided : No information available.

Substances to be avoided : Organic combustible substances, reducing agents, chlorates, phosphides, sulphides, hydrazine & derivatives, metals in powder form

Hazardous decomposition products : No information available.

11. Toxicological Information

Acute Toxicity :

Quantitative data on the toxicity of this product are not available.

Subacute to chronic toxicity : Animal experiments performed under conditions comparable with the workplace situation have shown the substance to be carcinogenic.

A mutagenic effect has been demonstrated in animal studies on mammals, justifying the assumption that exposure of humans to the substance produces hereditary damage.

Further toxicological information :

The following applies to soluble chromium(VI)compounds :

After inhalation : Burns. Possible allergic reaction of the airways (risk of pneumonia !) and damage to the nasal mucous membranes (under certain circumstances, risk of septum perforation).

After skin contact : Burns. Penetration of the substance into wounds causes poorly healing ulcers. In sensitive persons the substance easily causes sensitization.

After contact with eyes : Burns.

After swallowing : Severe pain in the gastrointestinal tract.

Systemic effects : Absorption can lead to kidney and liver damage.

Further data : The product should be handled with the care usual when dealing with chemicals.

12. Ecological Information

Ecotoxic effects : Biological effects : Toxic for aquatic organisms.

Further ecologic data : The following applies to chromium ions in general : biological effects : fish : toxic from 52 mg/lit. up; LC₅₀ : 29 mg/lit.; algae : toxic from 5 mg/lit. up; arthropods : Daphnia toxic from 0.32 mg/lit. up, calculated as Sodium Chromate.



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Do not allow to enter waters, waste water, or soil !

13. Disposal Method

There are no uniform EC Regulations for the disposal of chemicals or residues. Chemical residues generally count as special waste. The disposal of the latter is regulated in the EC member countries through corresponding laws & regulations. We recommend that you contact either the authorities in charge/approved waste disposal companies which will advise you on how to dispose of special waste.

Disposal in compliance with official regulations. Handle contaminated packaging in the same way as the substance itself. If not officially specified differently, non-contaminated packaging may be treated like household waste or recycled.

14. Transport information

GGVS/GGVE class : 6.1 Number and letter : 65b
Transport over land ADR/RID class : 6.1 Number and letter : 65b
ADR/RID & GGVS/GGVE : Name of material : POTASSIUM CHROMATE

Sea Transport IMDG : IMDG class : 6.1 UN No. : 3288 Packing group : II
Ems : 6.1 - 04 MFAG : 4.2
Correct Technical Name : POTASSIUM CHROMATE SOLUTION

Air Transport ICAO-TI ICAO/IATA class : 6.1 UN No. : 3288
and IATA-DGR : Packaging group : II
Correct Technical Name : POTASSIUM CHROMATE SOLUTION

15. Regulatory Information

Labeling according to EC Directives

Symbol :	T	Toxic
R-phrases :	49-46-36/37/38-43-50/53	May cause cancer by inhalation. May cause heritable genetic damage. Irritating to eyes, respiratory system and skin. May cause sensitization by skin contact. Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
S-phrases :	53-45-60-61	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 & its container must be disposed of as hazardous waste. Avoid release to the environment. Refer to special instructions/ Safety Data sheets.



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EC-No. : 232-140-5 EC label

Water pollution class : 3 (highly polluting substance) (own classification)

16. Other Information :

Reason for alteration

Change in labeling.

Change in the chapter on toxicology.

The information contained herein is based on the present state of our knowledge. It characterises the product with regard to the appropriate safety precautions. It does not represent a guarantee of the properties of the product.