

1. CHEMICAL PRODUCT AND COMPANY INFORMATION

Product Identity : **CI10 Chromium Intensifier**
Producer / Distributor : Jay House Ltd., Fiveways House, Westwells Road,
 Rudloe, Corsham, Wiltshire, U.K. SN13 9RG
Emergency Tel : 01225 810596 Fax: 01225 811801

2. COMPOSITION / INGREDIENT INFORMATION

Supplied as a Liquid

Chemical Name and Symbol letter	R-Phrases	S-Phrases	EINEC No	CAS No
Potassium di-Chromate <4% Xi	R-36/37/38-43	231-906-6	7778-50-9	
Hydrochloric Acid <2% C	R34-37	231-595-7	7647-01-0	

3. HAZARD IDENTIFICATION

Most important hazards :
 Human health hazard: Slight irritant. Please refer to section 11.

4. FIRST AID MEASURES

Inhalation : Remove to fresh air. Ensure patient rests. Obtain medical attention
Skin contact : Flush with running water for at least 15 minutes. Remove contaminated clothing and wash before reuse. If irritation persists obtain medical attention.
Eye contact : Irrigate with plenty of water for at least 15 mins separating eyelids. Obtain medical attention
Ingestion : Wash out mouth with water and give water to drink. Obtain medical advice immediately. do not give water to an unconscious person
Important : If the situation warrants further medical treatment, provide data to accompany the patient on the chemical involved, together with brief details of treatment already given.
Advice to physician :

5. FIRE-FIGHTING MEASURES

Flash Point : Supplied as a liquid
Suitable extinguishing media All suitable. Use extinguishing media appropriate with surrounding materials
Unsuitable extinguishing media :-
Special exposure hazards Strong Oxidiser. May emit toxic fumes when involved in fire arising from substance or combustion products
Special protective equipment In the case of a fire where decomposition could be expected, personnel should wear breathing apparatus to protect against the hazardous effects of the normal products of combustion or oxygen deficiency

6. ACCIDENTAL RELEASE MEASURES

Personal precautions : Wear goggles, mask and rubber gloves.

Environmental precautions : Prevent material contaminating soil, vegetation and water courses.

Methods for cleaning up : Mop up cautiously with plenty of water and if local regulation permit flush to waste with plenty of water. Wash area of spill thoroughly with plenty of

7. HANDLING AND STORAGE

Precautions During Handling Wear appropriate chemical resistant gloves safety goggles and other protective clothing. Do not eat, drink or smoke when working with this chemical. Emergency wash and eye wash facilities should be available. Avoid contact with skin and eyes. wash thoroughly after use

Ventilation: Use only with good ventilation.

Precautions during storage : Store in a cool, dry place in sealed containers.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure limits : EH40/97

Hydrogen Chloride - 5ppm 15 min STEL

Chromium (VI) Compounds - 0.05mg/m³ 8Hr TWA MEL

Respiratory protection : Dust mask in presence of dust.

Hand protection : Chemical resistant gloves.

Eye Protection : Safety goggles and eyewash bottle.

Skin protection : Chemical overalls

Additional information : Do not use if skin is scratched or cut, potassium dichromate is known as a poison, corrosive, carcinogen, sensitiser, mutagen

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	: orange liquid
Odour	: Odourless
Flash point	: Not relevant
Boiling Point	:
Density (20 deg C)	:
Solubility	:

10. STABILITY AND REACTIVITY

Stability : Stable under normal conditions.

Conditions to avoid : Heat

Materials to avoid : Reducing Agents, Organic Materials.

Hazardous decomposition products : When involved in a fire toxic fumes may be given off. Do not breathe these fumes.

11. TOXICOLOGICAL INFORMATION

Acute toxicity data : Potassium Di chromate

Acute Effects :

May be fatal if inhaled, swallowed or absorbed through skin.

Material is extremely destructive to tissue of the mucas membranes and upper respiratory tract, eyes and skin.

Inhalation may be fatal as a result of spasm, inflammation and edema of the larynx and bronchi, chemical pneumonitis and pulmonary edema

Symptoms of exposure may include burning sensation, coughing, wheezing, laryngitis, shortness of breath, headache, nausea and vomiting

Chronic Effects :

Carcinogen. May alter genetic material

Target Organs: Lungs, Kidneys.

Additional Information :

Inhalation of dichromate dusts can cause ulceration and perforation of the nasal septum.

Contact with breaks in the skin can cause ulceration (Chrome Sores). Other symptoms of exposure include erosion and discolouration of the teeth, nephritis, epigastric pain (inflammation and ulceration of the gastrointestinal tract).

RTECS # HX7680000

Dichromic Acid, Dipotassium Salt

Toxicity Data

ORL-CHD LDLO :26mg/kg

ZEKIA5 81,417,58

ORL-MUS LD50 : 190mg/kg

SAIGBL 20,590,78

IPR-MUS LD50 : 37mg/kg

CRNGDP 4,1535,83

Target Organ Data :

Behavioural (somnolence)

Lungs, Thorax or Respiration (Respiratory Stimulation)

Gastrointestinal (Nausea or Vomiting)

Kidney, ureta, bladder (changes in tubules)

Kidney, ureta, bladder (intestinal nephritis)

Effects on Fertility (Pre-implantation mortality)

Effects on Fertility (Post-implantation mortality)

Effects on Fertility (Other measures of fertility)

Effects on embryo or fetus (Fetotoxicity)

Effects on embryo or fetus (Fetal Death)

Specific developmental abnormalities (craniofacial)

Specific developmental abnormalities (Musculoskeletal system)

Only selected registry of toxic effects of chemical substances (RTECS) data is presented here. See actual entry in RTECS for complete information.

Inhalation : Slight risk of irritation

Ingestion : LD/LO (rate) 1600 mg/kg

Skin contact : slightly corrosive to prolonged exposure

Eye contact : Slight risk of soreness

Chromium (VI) salts are generally considered as potent carcinogens, although this is not thought to be the case with potassium dichromate

12. ECOLOGICAL INFORMATION

Data not yet available

13. DISPOSAL CONSIDERATIONS

Product or contaminated product Dispose of leftovers, waste or contaminated products in accordance with local and national regulations.

Contaminated package : Contaminated package should be disposed of in accordance with local and national regulations.

Other information : We recommend the separation of any waste resulting from this product. It can be dangerous when different photographic products are mixed together

14. TRANSPORT INFORMATION

UN No. :-

Description : NON HAZARDOUS

Containing :-

ADR/RID Class :-

Item :-

TREMCARD: -

IMDG/ADNR Class :-

Page :-

EmS :-

Pack.gr: -

MFAG :

ICAO/IATA Class :-

Pass< :-

Instr. :-

Pack.gr: -

Cargo< :-

Instr. :-

15. REGULATORY INFORMATION

Chemical identity : Potassium Dichromate

Warning sign EC : Irritant

Symbol(s) : Xi

R(isk) phrase(s) : R36/37/38 R43

Irritating to eyes, respiratory system and skin

May cause sensitisation by skin contact

S(afety) phrase(s) : S2, S24, S36/37/39, S46

Keep out of the reach of children

Avoid contact with the skin.

Wear suitable protective clothing, gloves and eye/face protector

If swallowed seek medical advice immediately and show this container or label

Exposure limits :-

Other information :-

16. OTHER INFORMATION

1. HSC Approved Supply List "Information approved for the classification and labelling of substances and preparations dangerous for supply" Chemicals (Hazard Information and Packaging for Supply) Regulations 1994

2. HSE EH40/94 Occupational Exposure Limits 1994 [for use with The Control Of substances Hazardous to Health (C.O.S.H.H.)]

3. HSC Approved Carriage List " Information approved for the classification, packaging and labelling of dangerous goods for carriage by road and rail", [Carriage of Dangerous Goods by Road and Rail (Classification, Packaging and Labelling) Regulations 1994].