

(In compliance with EC/1907/2006 Article 31 and Annex II)

Revision Date: 13/12/2013

Revision Number: 1

Material/Trade Name: CI 10 CHROMIUM INTENSIFIER

1 – Identification of Substance/Mixture and of the Company/Undertaking

Material/Trade Name : CI 10 Chromium Intensifier
 Material type : Photographic process reagent
 Company : Jay House Ltd
 Address : 6B Park Lane Industrial Estate
 Park Lane
 Corsham
 SN13 9LG
 Telephone : 01249 714555
 Fax : 01249 714999
 Internet : info@fotospeed.com

2 – Hazards Identification**Classification of the substance or mixture***According to Regulation (EC) No.1272/2008*

Carcinogen (Category 1B)	H350	May cause cancer
Mutagen (Category 1B)	H340	May cause genetic effects
Reproductive (Category 1B)	H360FD	May damage fertility or the unborn child
Acute toxic (Category 1)	H330	Fatal if inhaled
Acute toxic (Category 4)	H302	Harmful if swallowed
STOT RE	H373i	May cause damage to organs through prolonged or repeated exposure
Respiratory Sensitiser (Category 1)	H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled
Skin Sensitiser (Category 1)	H317	May cause an allergic skin reaction
Aquatic Chronic (Category 2)	H411	Toxic to aquatic life with long lasting effects

According to European Directive 67/548/EEC as amended

T; Toxic, Xn; Harmful, N; Dangerous for the environment

R45	May cause cancer
R46	May cause heritable damage
R60	May impair fertility
R61	May cause harm to unborn child
R23	Toxic by inhalation
R22	Harmful if swallowed
R48/20	Harmful: danger of serious damage to health by prolonged exposure through inhalation
R42/43	May cause sensitisation by inhalation and skin contact
N 51/53	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment

3 – Composition/Information on Ingredients

CAS No.	EC No.	Index No.	Classification	Concentration
Potassium dichromate				
7778-50-9	231-906-6	024-002-00-6	Ox. Sol. 2, Carc. 1B, Muta. 1B, Repr. 1B, Acute Tox. 2, Acute Tox. 3, STOT RE 1, Acute Tox. 4, Skin Corr. 1B, Resp. Sens. 1, Skin Sens. 1, Aquatic Acute 1, Aquatic Chronic 1 H272, H350, H340, H360FD, H330, H301, H372, H312, H314, H334, H317 H400, H410 O; R8, Carc. Cat. 2; R45, Muta. Cat. 2; R46, Repr. Cat. 2; R60-61, T+; R26, T; R25-48/23 Xn; R21, C; R34, R42/43, N; R50-53	<4% w/w
Hydrochloric Acid				
7647-01-0	231-595-7	017-002-00-2	Acute Tox. 3, Skin Corr. 1A H331, H314 T; R23, C; R35	<2% w/w

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4 - First-aid Measures

Inhalation:

Remove to fresh air and rest. If recovery is not rapid call for prompt medical attention. Show this safety data sheet to medical personnel.

Eyes

Irrigate with water for at least 15 minutes. Take care not to wash chemical from one eye to another. If irritation persists, obtain medical attention.

Skin

Remove contaminated clothing. Wash with soap/cleanser and rinse with plenty of water. If irritation persists, obtain medical attention.

Ingestion

Do NOT induce vomiting. Give plenty of water to drink. If feeling unwell seek prompt medical attention.

5 - Fire-fighting Measures

Suitable Extinguishers

Use media such as alcohol/aqueous foam, dry chemical, or carbon dioxide or water spray/fog which are suitable and appropriate for any surrounding fire.

Unsuitable Extinguishers

None.

Hazardous Decomposition

None.

Special Procedures/information for firefighters

Do not breathe decomposition products and fumes. Use approved self-contained breathing apparatus. Wear fire retardant clothing. Use water spray to cool containers. Prevent runoff from fire control from entering waterways. Large fires should only be dealt with by trained personnel.

6 - Accidental Release Measures

Personal Protection and Precautions

Use suitable personal protective equipment (refer to Section 8 for details). Avoid breathing vapours. Ensure adequate ventilation.

Environmental Precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains or watercourses.

Containment, Cleaning up and Disposal Considerations

Absorb in inert material such as sand or non-combustible absorbent granules

Scoop up and place in plastic container to await transfer

Refer to Section 13 for further information regarding disposal.

7 - Handling and Storage

Handling

Avoid inhalation of vapour or mist.

Storage

Store in cool place. Keep container tightly closed in a dry and well-ventilated place.

8 - Exposure Controls/Personal Protection

Occupational Exposure Limit: 0.05 mg/m³ 8hrTWA WEL Potassium Dichromate
8 mg/m³ 8hrTWA WEL Hydrochloric Acid

Respiratory Protection

Use in well ventilated areas. Use mechanical ventilation if possible.

Hand Protection

Wear polythene, PVC or nitrile gloves to Standard EN 374 (breakthrough time for total immersion in excess of 8 hours).

Eye Protection

Wear suitable eye protection such as safety glasses or goggles to Standard BS EN 166 if splash or eye contact likely.

Skin Protection

Wear suitable overalls or apron and change if contaminated. After contact with skin wash off immediately. Wash hands before breaks and immediately after using the product.

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8 - Exposure Controls/Personal Protection

Occupational Exposure Limit: 0.05 mg/m³ 8hrTWA WEL Potassium Dichromate
8 mg/m³ 8hrTWA WEL Hydrochloric Acid

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Eye Protection

Wear suitable eye protection such as safety glasses or goggles to Standard BS EN 166 if splash or eye contact likely.

Skin Protection

Wear suitable overalls or apron and change if contaminated. After contact with skin wash off immediately. Wash hands before breaks and immediately after using the product.

9 - Physical & Chemical Properties

Appearance : Liquid

Odour : None

pH : n/e

Boiling point/range : n/e

Melting point/range : n/e

Flash point : n/e

Flammability : NON FLAMMABLE

Autoflammability : n/e

Explosive properties : n/e

Oxidising properties : None

Vapour pressure : n/e

Relative density : n/e

Solubility : n/e

Partition Coefficient : n/e

Vapour Density : n/e

Viscosity : n/e

Evaporation rate : n/e

(n/e = not established)

10 - Stability and Reactivity

Chemical Stability

Stable at normal temperatures and under recommended storage conditions.

Conditions to Avoid

Extreme temperature and direct sunlight, moist environments

Materials to Avoid

Organic materials, do not store near acids. Powdered metals, Hydrazine, Bases, Amines, Alkali metals, Metals, permanganates, e.g. potassium permanganate, Fluorine, metal acetylides, hexalithium disilicide.

Hazardous Decomposition Products

No hazardous decomposition products when stored and handled correctly.

11 - Toxicological Information

Acute toxicity

Toxic by inhalation. For pure Potassium Dichromate;

LD₅₀ oral, rat (acute lethal effects) >200, ≤2000mg/kg

LC₅₀ Inhalation, rat (acute lethal effects) from vapours >0.5, ≤2mg/litre/4h.

Inhalation, rat, sever effects after repeated/prolonged exposure ≤0.25mg/litre/6h/day.

Skin corrosion/irritation

Not expected to cause any acute skin corrosion or irritation

Serious eye damage/eye irritation

Not expected to cause any acute eye damage or irritation; low level transient eye irritation may be possible following exposure to liquid or vapours.

Respiratory or skin sensitization

May cause allergic respiratory reaction

Germ cell mutagenicity

May alter genetic material.

In vivo tests showed mutagenic effects

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This is or contains a component that has been reported to be carcinogenic based on its IARC, OSHA, ACGIH, NTP, or EPA classification.

Human carcinogen - IARC: 1 - Group 1: Carcinogenic to humans (Potassium dichromate)

Human Mutagen – Category 2 mutagen

Reproductive toxicity

Presumed human reproductive toxicant.

Specific target organ toxicity - single exposure

No data available.

Specific target organ toxicity - repeated exposure

Inhalation – causes damage to organs through prolonged or repeated exposure

Potential health effects

Inhalation May be fatal if inhaled. Material is extremely destructive to the tissue of the mucous membranes and upper respiratory tract.

Ingestion May be harmful if ingested in quantity causes burns

Skin May causes sensitisation

Eyes May cause mild transient eye irritation

Signs and Symptoms of Exposure

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

12 - Ecological Information**Toxicity**

96h LC₅₀ (fish) >1, ≤10mg/l

48hEC₅₀ (daphnia) >1, ≤10mg/l

72hLC₅₀ (algae) >1, ≤10mg/l

Persistence and degradability

No data available.

Mobility in soil

No data available.

PBT and vPvB assessment

No data available.

Bioaccumulative potential

Oncorhynchus mykiss

(rainbow trout) – 180 d -200µg/l

Bioconcentration factor (BCF): 17.4

Other adverse effects

Toxic to aquatic life

13 -Disposal Considerations**Product**

Material is classified as hazardous waste under the Hazardous Waste Regulations 2005 as amended). Contact a licensed professional waste disposal service to dispose of this material.

Contaminated packaging

Dispose of as unused product.

14 -Transport Information

UN/SI Number:

3287

IMO:

Class 6.1

Packing Group III

IATA/IACO

Class 6.1

Packing Group III

ADR/RID

Class 6.1

Packing Group III

HAZCHEM/Kemler Code:

2XE/66

Transport Name:

TOXIC LIQUID, INORGANIC, n.o.s (Potassium Dichromate solution)

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15 - Regulatory Information

Label Elements

Pictogram



Signal Word

Danger

Hazard Statement(s)

H350	May cause cancer
H340	May cause genetic effects
H360FD	May damage fertility or the unborn child
H330	Fatal if inhaled
H302	Harmful if swallowed
H373i	May cause damage to organs through prolonged or repeated exposure
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled
H317	May cause an allergic skin reaction
H411	Toxic to aquatic life with long lasting effects

Precautionary statement(s)

P201	Obtain special instructions before use.
P220	Keep/Store away from clothing/ combustible materials.
P260	Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.
P273	Avoid release to the environment.
P280	Wear protective gloves/ protective clothing/ eye protection/ face protection.
P284	Wear respiratory protection.

Other Regulations

Health & Safety at Work etc. Act 1974
 Control of Substances Hazardous to Health Regulations 2002 (as amended)
 Chemicals (Hazard Information and Packaging for Supply) Regulations 2009
 Classification, Labelling and Packaging of Substances and Mixtures Regulations 2008 (as amended)
 EH40/2005 Workplace Exposure Limits (as amended)
 Environmental Protection Act 1990
 Hazardous Waste Regulations 2005 (as amended)

16 - Other Information

Text of H-code(s) and R-phrase(s) mentioned in Section 3

H272	May intensify fire; oxidiser	R45	May cause cancer.
H350	May cause cancer	R46	May cause heritable genetic damage.
H340	May cause genetic effects	R60	May impair fertility.
H360FD	May damage fertility or the unborn child	R61	May cause harm to the unborn child.
H330	Fatal if inhaled	R21	Also harmful in contact with skin.
H302	Harmful if swallowed	R25	Also toxic if swallowed.
H373i	May cause damage to organs through prolonged or repeated exposure	R26	Also very toxic by inhalation.
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled	R48/23	Also toxic: danger of serious damage to health by prolonged exposure through inhalation.
H317	May cause an allergic skin reaction	R 8	Contact with combustible material may cause fire.
H411	Toxic to aquatic life with long lasting effects	R34	Causes burns.
		R42/43	May cause sensitization by inhalation and skin contact.
		R50/53	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment

Recommended restrictions on use

Use in accordance with manufacturer's technical instructions.

Revision History

Amendment to first issue of First Issue of 30/10/2012 – Amendments to Section 14

Further Information

The information in this Safety Data Sheet should be provided to all who will use, handle, store, transport or otherwise be exposed to this product. This information has been prepared for the guidance of plant engineering, operations, management and for people working with or handling these products. This information is believed to be reliable and updated at Revision Date, and represents the best information currently available and known by Jay House Ltd. (Jay House). However, Jay House makes no guarantee or warranty, express or implied, with respect to such information and we assume no liability resulting from its use. The information related herein is based on proper handling and anticipated uses and is for the material without chemical additions or alterations. Users should make their own investigations to determine the suitability of the information for their particular purposes. It is the responsibility of the user to undertake a suitable risk assessment/COSHH assessment prior to using this material.