Jay House Ltd.

SAFETY DATA SHEET

Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II
Version 2 Revision Date 27/01/2017

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifiers

Product name : CI 10 CHROMIUM INTENSIFIER

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

Identified uses : Photographic process reagent

Used advised against : None identified

1.3 Details of the supplier of the safety data sheet

Company : Jay House Ltd
6B Park Lane Industrial Estate
Park Lane
Corsham
SN13 9LG
United Kingdom

Telephone : 01249 714555
E-mail address : info@fotospeed.com

1.4 Emergency telephone number

Emergency Phone : 01249 714555 (only available during office hours)

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 [CLP]

Skin Irritant (Category 2)	H315
Skin Sensitiser (Category 1)	H317
Eye effects (Category 1)	H318
Acute Toxicity (Category 4)	H332
Respiratory Sensitiser (Category 1)	H334
Mutagen (Category 1B)	H340
Carcinogen (Category 1)	H350
Reproductive Toxicant (Category 1B)	H360
Specific Target Organ Toxicity Repeated Exposure (Category 2)	H373
Aquatic Chronic (Category 2)	H411

2.2 Label elements

Labelling according Regulation (EC) No 1272/2008 [CLP]

Pictograms

Signal word Danger

SECTION 2: HAZARDS IDENTIFICATION (Continued)

Hazard statement(s)

H315 Causes skin irritation
H317 May cause an allergic skin reaction
H318 Causes serious eye damage
H332 Harmful if inhaled
H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled
H340 May cause genetic defects
H350 May cause cancer
H360 May damage fertility or the unborn child
H373 May cause damage to organs through prolonged or repeated exposure
H411 Toxic to aquatic life with long lasting effects

Precautionary statement(s)

P201: Obtain special instructions before use
P261: Avoid breathing dust/fumes/gas/mist/vapours/spray
P280: Wear protective gloves/protective clothing/eye protection/face protection
P308 + P313: If exposed or concerned: Get medical advice/attention
P305 + P351 + P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing.
P302 + P352: IF ON SKIN: Wash with plenty of soap and water

Supplemental Hazard statement(s)

None

2.3 Other hazards :

This product contains potassium dichromate which is included in the list of substances included in Annex XIV of REACH – the "Authorisation List" as a substance of Very High Concern (SVHC) according to Regulation (EC) No. 1907/2006 (REACH).

This product is not identified as a PBT/vPvB substance.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.2 Mixtures

CAS No.	EC No.	Index No.	Classification	Concentration
Potassium dichromate *				
7778-50-9	231-906-6	024-002-00-6	Ox. Sol. 2; H272, Acute Tox. 3; H301, Acute Tox. 4; H312, Skin Corr. 1B; H314, Skin Sens. 1; H317, Acute Tox. 2; H330, Resp. Sens. 1; H334, Muta. 1B; H340, Carc. 1B; H350; Repr. 1B; H360FD, STOT RE 1; H372, Aquatic Acute 1; H400, Aquatic Chronic 1; H410;	<4 %
Hydrochloric acid				
7647-01-0	231-595-7	017-002-01	Skin Corr. 1B; H314, STOT SE 3; H335	<2 %

For the full text of the H-Statements mentioned in this Section, see Section 16

SECTION 4. FIRST AID MEASURES

4.1 Description of first aid measures

If inhaled
Unlikely to occur during intended use. If vapour or mists are breathed in, move person into fresh air. If not breathing, give artificial respiration.

In case of skin contact
Wash off with soap and water. If irritation persists, seek further medical attention.

In case of eye contact
Rinse thoroughly with plenty of water for at least 15 minutes. Take care not to wash the chemical from one eye to the other. If irritation persists, seek further medical attention.

If swallowed
Never give anything by mouth to an unconscious person. If person is conscious, rinse mouth with water and give plenty of water to drink. Seek further medical attention if feeling unwell.

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).

4.3 Indication of any immediate medical attention and special treatment needed
In case of allergic reaction/anaphylactic shock call for immediate assistance from trained first aiders.

SECTION 5. FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media
Use water fog, alcohol-resistant foam, dry chemical or carbon dioxide.

Unsuitable extinguishing media
None.

5.2 Special hazards arising from the substance or mixture
Highly dependent on combustion conditions. May produce decomposition fumes and combustion products if involved in a fire.

5.3 Advice 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. Use water fog to disperse vapours and leaks that have not ignited. Prevent runoff from fire control from entering waterways. Large fires should only be dealt with by trained personnel.

SECTION 6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures
Use suitable personal protective equipment (refer to Section 8 for details). Avoid breathing vapours or mists. Ensure adequate ventilation.

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

6.3 Methods and materials for containment and cleaning up
Absorb in inert material such as sand or non-combustible granules. Scoop up and place in a plastic container and dispose of in a manner consistent with applicable regulations.

6.4 Reference to other sections
For disposal see section 13.

SECTION 7. HANDLING AND STORAGE

7.1 Precautions for safe handling
Avoid contact with skin and eyes. Avoid inhalation of vapour or mist.

7.2 Conditions for safe storage, including any incompatibilities
Store in cool place. 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.

7.3 Specific end use(s)
No data available

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Components with occupational exposure limits

Component	CAS No.	Reference period	Exposure Limit	Basis
Potassium dichromate	7778-50-9	8hr TWA	0.05 mg/m^3	EH40 WEL (Carc, Sen, BMGV)
Hydrochloric acid	7647-01-0	8hr TWA 15min STEL	2 mg/m^3 8 mg/m^{38} l	EH40 WEL

8.2 Exposure controls

Appropriate engineering controls
Use in well ventilated areas. Use mechanical ventilation in poorly ventilated areas.

Personal protective equipment

Eye/face Protection
Use equipment for eye protection tested and approved under appropriate standards such as EN 166.

Skin Protection
Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with good practices. Wash and dry hands. The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it. Recommended glove types include Polythene, Neoprene, and PVC gloves.

Body Protection
Wear suitable overalls or apron and change if contaminated.

Respiratory Protection
Where risk assessment in accordance with the hierarchy of controls established within the Chemical Agents Directive shows a requirement for respirators as a means of control, use a particulate filter type P.

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

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

a)	Appearance	Form: liquid
b)	Odour	None
c)	Odour Threshold	no data available
d)	pH	no data available
e)	Melting point/freezing point	no data available
f)	Initial boiling point	no data available
g)	Flash point	no data available
h)	Evaporation rate	no data available
i)	Flammability (liquid)	Non Flammable
j)	Upper/lower flammability or explosive limits	no data available
k)	Vapour pressure	no data available
l)	Vapour density	no data available
m)	Relative density	no data available
n)	Water solubility	Fully miscible in water
o)	Partition coefficient (n- octanol/water)	no data available
p)	Auto-ignition temperature	no data available
q)	Decomposition temperature	no data available
r)	Viscosity	no data available
s)	Explosive properties	None
t)	Oxidizing properties	None

9.2 Other safety information
No data available

SECTION 10. STABILITY AND REACTIVITY

10.1 Reactivity
No data available on mixture.

10.2 Chemical stability
Expected to be stable at normal temperatures and under recommended storage conditions.

10.3 Possibility of hazardous reactions
No data available.

10.4 Conditions to avoid
High temperature (>50℃), sources of ignition & direct sunlight.

10.5 Incompatible materials
Do not store near acids, powdered metals, hydrazine, bases, amines, alkali metals, meals, permanganates e.g. potassium permanganate, Fluorine, meal acetylides, hexalithium disilicide.

10.6 Hazardous decomposition products
No hazardous decomposition products when stored and handled correctly.

SECTION 11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity
No data available on mixture.

Skin corrosion/irritation
No data available on mixture. Expected to cause skin irritation.

Serious eye damage/eye irritation
No data available on mixture. Expected to cause serious eye damage.

Respiratory or skin sensitisation
May cause sensitisation by inhalation and skin contact.

Germ cell mutagenicity
May cause genetic defects.

Carcinogenicity

IARC: A component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

Reproductive toxicity
May damage fertility of the unborn child.

Specific target organ toxicity - single exposure
May cause damage to organs through single exposure. No data available on mixture. Inhalation of significant vapours or mists may cause transient respiratory irritation.

Specific target organ toxicity - repeated exposure
May cause damage to organs through prolonged or repeated exposure. No data available.

Aspiration hazard
No data available on mixture. Not expected to pose an aspiration hazard.

Potential health effects

Inhalation	Excessive inhalation of vapours, aerosols or mists may cause transient respiratory tract irritation.
Ingestion	May be harmful if ingested in significant quantities.
Skin	Causes skin irritation
Eyes	Causes eye damage.

Signs and Symptoms of Exposure
May cause anaphylactic allergic reaction. Material may cause irritation to the respiratory tract, eyes and skin. Symptoms may include inflammation of the mucous membranes and upper respiratory tract, coughing, wheezing, shortness of breath. To the best of our knowledge, the chemical, physical, and toxicological properties of this mixture have not been thoroughly investigated.

SECTION 12. ECOLOGICAL INFORMATION

12.1 Toxicity

96h LC_{50} (fish) >1, ≤10mg/l
48hEC_{50} (daphnia) >1, ≤10mg/l
72hLC_{50} (algae) >1, ≤10mg/l
Toxic to aquatic life with long lasting effects

12.2 Persistence and degradability

No data available.

12.3 Bioaccumulative potential

Oncorhynchus mykiss (rainbow trout) – 180 d -200µg/l
Bioconcentration factor (BCF): 17.4

12.4 Mobility in soil

No data available.

12.5 Results of PBT and vPvB assessment

No data available. Will not meet PBT or vPvB criteria.

12.6 Other adverse effects

No data available.

SECTION 13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product

Material is classified as non-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.

SECTION 14. TRANSPORT INFORMATION

14.1 UN number

ADR/RID: - not applicable IMDG: - not applicable IATA: - not applicable

14.2 UN proper shipping name

ADR/RID: Not dangerous goods
IMDG: Not dangerous goods
IATA: Not dangerous goods

14.3 Transport hazard class(es)

ADR/RID: - not applicable IMDG: - not applicable IATA: - not applicable

14.4 Packaging group

ADR/RID: - not applicable IMDG: - not applicable IATA: - not applicable

14.5 Environmental hazards

ADR/RID: no IMDG Marine Pollutant: no IATA: no

14.6 Special precautions for user

no data available

SECTION 15. REGULATORY INFORMATION

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

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

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)

15.2 Chemical Safety Assessment

No data available.

SECTION 16. OTHER INFORMATION

Further information
Text of H-statements mentioned in Section 3

H272 May intensify fire; oxidizer
H301 Toxic if swallowed
H312 Harmful in contact with skin
H314 Causes severe skin burns and eye damage
H315 Causes skin irritation
H317 May cause an allergic skin reaction
H318 Causes serious eye damage
H330 Fatal if inhaled
H332 Harmful if inhaled
H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled
H335 May cause respiratory irritation
H340 May cause genetic defects
H350 May cause cancer
H360 May damage fertility or the unborn child
H372 Causes damage to organs through prolonged or repeated exposure
H373 May cause damage to organs through prolonged or repeated exposure
H400 Very toxic to aquatic life
H410 Very toxic to aquatic life with long-lasting effects
H411 Toxic to aquatic life with long lasting effects

Recommended restrictions on use

Use in accordance with manufacturer's technical instructions.

Revision history

Amendment to the original SDS dated 12/12/2013 to align SDS with requirements of alterations to safety data sheet layout in accordance with changes to EC1907/2006 (REACH) amendments and removal of references to SI:2009/716 (CHIP).

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.