

Safety Data Sheet According to Regulation (EC) No. 1907/2006 Document No.: Version No.:

Effective Date:

MSDS013

03

01 Jan 2016

Chromium (VI) Standard and Plating (Film) Solutions

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

I.I Product Identifiers

Product name	: Chromium (VI) Standard and Plating (Film) Solutions
Product number	: R-300-20STCR-01, R-300-025PLA-CR, R-100-51STCR-01, R-10051STCR-500,
	R-100-51STCR-250, R-100-051PLA-CR
Substance name	: Chromium (VI) 20ppm, Ippm, 500ppb, 250ppb Standard, Chrome Plating
	Solution.
REACH reg no.	: This product is exempt from registration, insufficient annual volume.

1.2 Relevant identified uses of the substance or mixture and uses advised against Identified uses : Reagent for analysis

I.3 Details of the supplier of the safety data sheet Company : Modern Water Monitoring Limited : Units 15-17 Cambridge Science Park : Cambridge, CB4 0FQ : UK Email : info@modernwater.co.uk

I.4 Emergency telephone number +44 (0) 1483 696030

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Non Hazardous

2.2 Label elements: Non required

Signal Word: None required

Hazard statements: None required

Precautionary statements: None required

2.3 Other hazards : Not known



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SECTION 3: Composition/information on ingredients

3.1 Substance : Not relevant, see 3.2 Mixtures

3.2 Mixtures

Hazardous ingredients classification according to Regulation (EC) No. 1272/2008 CLP;

Substance name	Concentration	CAS No	EC No
Ammonium dichromate	<0.01%	7789-09-5	232-143-1
H272 – may intensify fir	e; oxidiser		
H301 - Toxic if swallow	ed.		
H312 - Harmful in conta	act with skin.		
H314 - Causes severe s	kin burns and eye dama	ge.	
H317 - May cause an all	ergic skin reaction.		
H330 - Fatal if inhaled.			
H334 - May cause allerg	y or asthma symptoms	or breathing difficulties if	f inhaled.
H340 - May cause genet	ic defects.		
H350 – May cause cance	er		
H360FD - May damage	fertility. May damage the	e unborn child.	
H372 - Causes damage	to organs through prolo	onged or repeated expos	ure.
H410 – very toxic to aq	uatic life with long lastir	ng effects	

SECTION 4: First Aid measures

4.1 Description of first aid measure

General advice: When in doubt or if symptoms observed, get medical advice. Show this safety data sheet to the doctor in attendance.

After Inhalation: Remove casualty to fresh air and keep warm. If breathing difficult or respiratory tract irritation get medical assistance.

In case of skin contact: Remove contaminated clothing. Wash off with soap and plenty of water.

After eye contact: Rinse thoroughly with plenty of water for at least 15 minutes. Remove contact lenses. Get medical assistance.

In case of ingestion: If accidentally swallowed rinse mouth with plenty of water (only if person is conscious). Do not induce vomiting. Get medical advice.

4.2 Most important symptoms and effects, both acute and delayed

None known

4.3 Indication of any immediate medical attention and special treatment needed

No information available.



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SECTION 5: Fire-fighting measures.

- 5.1 Extinguishing media: Suitable extinguishing media Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide. Unsuitable extinguishing media No restriction
- 5.2 Special hazards arising from the substance or mixture Nitrogen oxides (NOx)
- **5.3** Advice for firefighters Wear self contained breathing apparatus for fire fighting if necessary.

5.4 Additional information Do not let run-off from fire-fighting to enter drains or water courses.

SECTION 6: Accidental release measures.

6.1 **Personal precautions, protective equipment and emergency procedures** Use personal protective equipment (see section 8).

6.2 Environmental precautions

Do not let product enter drains or surface water. Spills are to be contained. Discharge into environment must be avoided.

- 6.3 Methods and materials for containment and cleaning up Soak up with inert absorbent material. Keep in a suitable closed container for disposal. Dispose correctly, referring to local regulations.
- 6.4 References to other sections For disposal see section 13.

SECTION 7: Handling and storage.

- 7.1 **Precautions for safe handling** Avoid exposure to skin and eyes.
- **7.2** Conditions for safe storage, including and incompatibilities Store in a cool place, below 25'c. Keep contained upright and the cap tightly closed.

7.3 **Specific end use(s)**

Apart from uses specified in section 1.2, no other specific uses.

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SECTION 8: Exposure controls/personal protection.

8.1 Control parameters

Component	CAS-No	Value type	Limit value	
Ammonium	7789-09-5	TWA	0.05mg/m3	EU and UK EH
Dichromate			_	WEL
Substances that ca induce a state of s Once the airways tiny quantities, ma	pecific airway hyper have become hyper y cause respiratory	-responsiveness via an i responsive, further exp	immunological, irritant osure to the substance otoms can range in seve	erity from a runny nose
impossible to identify in advance those who are likely to become hyper-responsive. Where no specific short-term exposure limit is listed, a figure three times the long-term exposure should				
be used. The 'Sen' notation in the list of WELs has been assigned only to those substances which may cause occupational asthma in the listed categories.				

8.2 Exposure controls:

Appropriate engineering controls

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at end of workday.

Personal protective equipment

Wear suitable protective clothing **Eye/face protection** Safety glasses with side-shields conforming to EN166 or equivalent standard. **Skin protection** Handle with gloves (PVC or nitrile)

SECTION 9: Physical and chemical properties.

9.1 Information on basic physical and chemical properties

Appearance Odour Odour threshold pH Melting point/range (°C) Boiling point (°C): Flash point Evaporation rate Flammability (solid/gas) Upper/lower flammability rates Vapour pressure (mmHg at 20°C) Vapour density

Clear colourless Liquid none not applicable 7 (approx.) not applicable 100 (approx.) not flammable not data available not applicable not flammable 25 (approx.) no data available

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Relative density Water solubility Partition coefficient: n-octane/water Auto ignition temperature Decomposition temperature Viscosity Explosive properties Oxidising properties 1.0 (approx.) completely miscible no data available no data available

9.2 Other data

SECTION 10: Stability and reactivity.

- IO.I Reactivity Not reactive
- **10.2** Chemical stability This product is chemically stable under standard ambient conditions (room temperature).
- **10.3 Possibility of hazardous reactions** No data available.
- **10.4 Conditions to avoid** No data available.
- **10.5** Incompatible materials No data available
- **10.6 Hazardous decomposition products** None

SECTION 11: Toxicological information.

II.I Information on toxicological effects Acute toxicity No data available

> **Skin corrosion/irritation** Can cause skin irritation

Serious eye damage/eye irritation Can cause eye irritation

Respiration or skin sensitisation Not sensitising

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Germ cell mutagenicity

No indication of human germ cell mutagenicity exist

Carcinogenicity

IARC: I - Group I: Carcinogenic to humans (Ammonium dichromate)

Reproductive toxicity

No indication of human reproductive toxicity exist

Specific target organ exposure - single exposure No data available

Specific target organ exposure - repeated exposure No data available

Aspiration hazard Not applicable

Other adverse effects

No data available

SECTION 12: Ecological information.

- 12.1 Toxicity No data available
- Persistence and degradability 12.2 No data available
- 12.3 **Bioaccumulative potential** No data available
- 12.4 Mobility in soil No data available
- 12.5 Results of PBT and vPvB assessment No data available

12.6 Other adverse effects

Toxic to aquatic life with long lasting effects.



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SECTION13: Disposal considerations.

13.1 Waste treatment methods:

Product

Dispose in accordance to local regulations, consult the local waste disposal expert.

Contaminated packaging

Dispose in accordance to local regulations, the same way as the product itself.

SECTION 14: Transport information.

Non - Hazardous for air, road and sea transport.

Land transport (ADR/RID)

14.1	UN number	Not applicable
14.2	UN proper shipping name	Not applicable
14.3	Transport hazard	Not applicable
14.4	Packaging group	Not applicable
14.5	Environmental hazards	Not applicable
14.6	Special precaution for user	Not applicable

Air transport (IATA)

14.1	UN number	Not applicable
14.2	UN proper shipping name	Not applicable
14.3	Transport hazard	Not applicable
14.4	Packaging group	Not applicable
14.5	Environmental hazards	Not applicable
14.6	Special precaution for user	Not applicable

SEA transport (IMDG)

14.1	UN number	Not applicable
14.2	UN proper shipping name	Not applicable
14.3	Transport hazard	Not applicable
14.4	Packaging group	Not applicable
14.5	Environmental hazards	Not applicable
14.6	Special precaution for user	Not applicable



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SECTION 15: Regulatory information.

- 15.1 Safety, health and environmental regulation/legislation specific for the substance or mixture None applicable
- **15.2 Chemical Safety Assessment** No data available

SECTION16: Other information.

Abbreviations and acronyms

ADR – European Agreement Concerning the International Carriage of Dangerous Goods by Road IATA – International Air Transportation Association IMDG – international Maritime Code of Dangerous Goods STEL – Short term exposure limit TWA – Time Weighted Average WEL – Workplace Exposure Limit

Symbol, R and S phrases for this mixture

None

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