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

Product name : Chrome Reagent
Product number : R-300-025CUP-01, R-100-001CUP-01
Substance name : Cupferron Solution, Chrome CSV reagent
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

1.3 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

1.4 Emergency telephone number

+44 (0) 1483 696030

SECTION 2: Hazards identification
2.1 Classification of the substance or mixture

Carcinogenicity (Category 2)

2.2 Label elements

Hazard pictogram



Signal Word: Warning


Hazard statements:

H315	Suspected of causing cancer
------	-----------------------------

Precautionary statements:

P301 + P310	IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

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
N-Nitroso-N-phenylhydroxylamine ammonium salt	<1%	135-20-6	205-183-2
H301 – Toxic if swallowed			
H315- Causes skin irritation.			
H319 – Causes serious eye irritation.			
H335 - May cause respiratory irritation.			
H351- Suspected of causing cancer.			
Ammonium Hydroxide	1%	1336-21-6	215-647-6
H302 – Harmful if swallowed			
H314 – causes severe skin burns and eye damage			
H335 - May cause respiratory irritation.			
H400 – Very toxic to aquatic life			

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: If breathing is difficult, give oxygen. Do not use mouth-to-mouth resuscitation if victim ingested or inhaled the substance; induce artificial respiration with a respiratory medical device. Remove from exposure, lie down. Call a physician immediately.

In case of skin contact: Wash off immediately with plenty of water for at least 15 minutes. Remove and wash contaminated clothing before re-use. Call a physician immediately.

After eye contact: Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Immediate medical attention is required. Keep eye wide open while rinsing.


In case of ingestion: Do not induce vomiting. Never give anything by mouth to an unconscious person. Clean mouth with water. Call a physician immediately.

4.2 Most important symptoms and effects, both acute and delayed

May cause dermatitis or cyanosis.

4.3 Indication of any immediate medical attention and special treatment needed

No data 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**
 No Data Available.
- 5.3 Advice for firefighters**
 Wear self-contained breathing apparatus.
- 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). Avoid breathing vapours, mist or gas. Ensure adequate ventilation.
- 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**
 Recommended storage between 2 – 8°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

Components with workplace control parameters

None

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	Clear slightly yellow Liquid
Odour	no data available
Odour threshold	no data available
pH	no data available
Melting point/range (°C)	no data available
Boiling point (°C):	no data available
Flash point	not flammable
Evaporation rate	no data available
Flammability (solid/gas)	not applicable
Upper/lower flammability rates	not flammable
Vapour pressure (mmHg at 20°C)	no data available
Vapour density	no data available
Relative density	1.0 (approx.)
Water solubility	completely miscible
Partition coefficient: n-octane/water	no data available
Auto ignition temperature	no data available
Decomposition temperature	no data available
Viscosity	no data available
Explosive properties	not explosive
Oxidising properties	no data available

9.2 Other data

none


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SECTION 10: Stability and reactivity.

- 10.1 Reactivity**
No data available
- 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**
Strong oxidising agents
- 10.6 Hazardous decomposition products**
No data available

SECTION 11: Toxicological information.

- 11.1 Information on toxicological effects**
- Acute toxicity**
No data available
- Skin corrosion/irritation**
May cause skin irritation
- Serious eye damage/eye irritation**
May causes eye irritation
- Respiration or skin sensitisation**
Not sensitising
- Germ cell mutagenicity**
No data available
- Carcinogenicity**
This product is or contains a component that has been reported to be possibly carcinogenic based on its IARC, ACGIH, NTP, or EPA classification.
Limited evidence of carcinogenicity in animal studies
- Reproductive toxicity**
No data available
- Specific target organ exposure – single exposure**
Inhalation - May cause respiratory irritation.

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Specific target organ exposure – repeated exposure

No data available

Aspiration hazard

Not applicable

Other adverse effects

Toxic if swallowed

SECTION 12: Ecological information.

12.1 Toxicity

No data available

12.2 Persistence and degradability

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

No data available

SECTION 13: 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.



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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

SECTION 15: Regulatory information.

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


General rules

No data available

15.2 Chemical Safety Assessment

No data available

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SECTION 16: 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

Symbol	Xi- Irritant	
R-phrases(s)	R40	Limited evidence of a carcinogenic effect.
S-phrases(s)	S26	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice
	S42	In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

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