

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION**1.1 Product identifier**

Trade name: Chrome Replica Solution

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

Relevant identified uses: Chrome plating of metals.

Uses advised against: All other uses.

1.3 Details of the supplier of the Safety Data SheetGoldgenie
Wenta Business Centre
1 Electric Avenue
London, EN3 7XU

Phone: +44 208 804 6200

Website: www.goldgenie.com**SECTION 2: HAZARDS IDENTIFICATION****2.1 Classification of the substance or mixture****Classification according to Regulation (EC) No. 1272/2008 [CLP]:**

Skin Sensitization, category 1

Eye irritation, category 2

2.2 Label elements**Labelling according to Regulation (EC) No. 1272/2008 [CLP]:**

Signal word: Warning

Hazard Statements:

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

Precautionary statements:

P280 – Wear eye protection.

P302 + P352 – IF ON SKIN: Wash with plenty of water/soap.

P305 + P351 + P338 – IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P332 + P313 – If skin irritation occurs: Get medical advice/attention.

P337 + P313 – If eye irritation persists: Get medical advice/ attention.

SAFETY DATA SHEET

Product Names: Chrome Replica Solution

Revision number: 001 Date: 15/01/2023

P501 – Dispose of contents/container according to regional/national regulations. Do not discard with household waste.

2.3 Other hazards

None known.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

This product is a mixture meeting the criteria for classification in accordance with Regulation (EC) No. 1272/2008.

Hazardous ingredients:

Name	CAS No.	GHS classification	% (w/v)
Ammonium chloride	12125-02-9	Acute Tox. 4, H302 Eye irrit. 2, H319	5 – 10
Dichromium tris(sulphate) hydrate	15244-38-9	Acute Tox. 4, H302 Acute Tox. 4, H312 Skin Irrit. 2, H315 Skin Sens. 1, H317 Eye irrit. 2, H319 Acute Tox. 3, H332	5 – 10
Boric acid	10043-35-3	Repr. 1B, H360	1 – 5.5
Ammonium bromide	12124-97-9	Eye irrit. 2, H319	1 – 5
Hydrochloric acid	7647-01-0	Skin Corr. 1, H314 Acute Tox. 3, H331	<1

The exact percentages (concentration) of composition have been withheld as a trade secret.

Additional information:

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

Following inhalation: Provide fresh air. In case of respiratory tract irritation, consult a physician. In case of irregular breathing or respiratory arrest, perform artificial respiration. No mouth-to-mouth or mouth-to-nose resuscitation. Use Ambu bag or ventilator.

Following skin contact: After contact with skin, wash immediately with plenty of water and soap. Call a doctor. Change contaminated clothing. Wash contaminated clothing before reuse.

SAFETY DATA SHEET

Product Names: Chrome Replica Solution

Revision number: 001 Date: 15/01/2023

Following eye contact: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a physician immediately. Protect uninjured eye.

Following ingestion: Rinse mouth, spit liquid again. Do NOT induce vomiting. Call a physician immediately.

Protection of first aider: Not applicable.

4.2 Most important symptoms and effects

Symptoms: The known symptoms and effects are described in section 2.2 of this SDS.

Risks: Untreated symptoms may result in additional health risks.

4.3 Indication of any immediate medical and special treatment

The physician may contact the national poison centre for advice.

SECTION 5: FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media: Dry chemical, CO₂, water spray or alcohol-resistant foam.

Unsuitable extinguishing media: No data available.

5.2 Specific hazards arising from mixture

Upon exposure to fire, harmful gases may be emitted. Nitrogen oxides (NO_x). Hydrogen chloride (HCl). Sulfur oxides. Chromium oxide.

5.3 Advice for fire fighters

Special protective equipment for firefighters:

As in any fire, wear self-contained breathing apparatus pressure-demand and full protective gear.

5.4 Other information

No other information available.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 NOTES FOR NON-EMERGENCY PERSONNEL: Wear suitable protective clothing. Avoid contact with skin, eyes and clothes. Wear personal protection equipment.

6.2 Environmental precautions: Do not discharge into drains or rivers. Contain the spillage using bunding.

Notes for those trained to participate in an emergency:

6.3 ACCIDENTAL RELEASE MEASURES: Absorb into dry earth or sand. Transfer to a closable, labelled salvage container for disposal by an appropriate method.

Recommendations for personal protective equipment selection are noted above. Dispose in accordance with section 13 of this document.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling

Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. Normal measures for preventive fire protection. Provide adequate ventilation, especially in confined areas.

7.2 Conditions for safe storage, including any incompatibilities

Storage Conditions: Store only in original container. Keep container tightly closed in a cool, well-ventilated place. Protect from heat/overheating. Store separately from oxidizing agents. Keep away from food, drink and animal feeding stuffs.

Incompatible materials: See section 10.

7.3 Specific end uses

See section 1.2.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Control parameters according to the local regulations should be taken into account.

8.2 Exposure controls

Engineering controls:

Avoid contact with skin, eyes and clothes. Remove contaminated, saturated clothing immediately. Protect skin by using skin protective cream. After work, wash hands and face. When using do not eat or drink.

Personal Protective equipment:

Hand: Wear protective gloves

Body protection: Impervious clothing.

SAFETY DATA SHEET

Product Names: Chrome Replica Solution

Revision number: 001 Date: 15/01/2023

Eye: Depending on the use of this product splash or safety glasses may be worn in an industrial setting.

Respiratory: In the case of respirable dust and/or fumes, use self-contained breathing apparatus.

Other measures: No statement available.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Liquid
Color:	Black
Odor:	Characteristic
Odor threshold:	No data available
pH:	5
Melting point/range:	No data available
Boiling point/range:	100 °C
Flash point:	No data available
Evaporation rate:	No data available
Flammability:	No data available
Upper/lower flammability or explosive limits:	No data available
Vapor pressure:	No data available
Vapor density:	No data available
Relative Density:	1.1 – 1.2
Solubility(ies):	No data available
Partition coefficient (n-octanol/water):	No data available
Auto-ignition temperature:	No data available
Decomposition temperature:	No data available
Viscosity:	No data available
Explosive properties:	No data available
Oxidizing properties:	No data available

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity

None under normal use conditions.

10.2 Chemical stability

Stable under normal conditions.

10.3 Possibility of hazardous reactions

Protect against heat and direct solar irradiation. Protect against contaminations.

10.4 Conditions to avoid

Keep away from heat.

10.5 Incompatible materials

Strong oxidizing agents.

10.6 Hazardous decomposition products

Upon exposure to fire, harmful gases may be emitted. Nitrogen oxides (NO_x). Hydrogen chloride (HCl). Sulfur oxides. Chromium oxide.

SECTION 11: TOXICOLOGICAL INFORMATION**General information:**

This product does not contain known human carcinogens.

11.1 Information on toxicological effects**Acute Toxicity:**

No statements available for any of the ingredients.

Skin corrosion/irritation:

No statements available for any of the ingredients.

Serious eye damage/irritation:

Causes serious eye irritation.

Respiratory or skin sensitization:

May cause an allergic skin reaction.

Germ cell mutagenicity:

No statements available for any of the ingredients.

Carcinogenicity:

This product does not contain known human carcinogens.

Reproductive toxicity:

No statements available for any of the ingredients.

STOT – single exposure:

No statements available for any of the ingredients.

STOT – repeated exposure:

No statements available for any of the ingredients.

Aspiration hazard:

No statements available for any of the ingredients.

Likely route(s) of exposure:

Skin exposure and eye exposure are the most likely to occur. Accidental ingestion is also possible.

SECTION 12: ECOLOGICAL INFORMATION**General information:**

No statements available for any of the ingredients.

12.1 Toxicity

No statements available for any of the ingredients.

12.2 Persistence and degradability**Physical- and photochemical elimination:**

No statements available for any of the ingredients.

Biodegradation:

No statements available for any of the ingredients.

12.3 Bioaccumulative potential

No statements available for any of the ingredients.

12.4 Mobility in soil**Known/Predicted environmental distribution:**

No statements available for any of the ingredients.

Surface tension:

No statements available for any of the ingredients.

Adsorption/Desorption:

No statements available for any of the ingredients.

12.5 Results of PBT and vPvB assessment

This product does not contain components which are considered to be persistent, bioaccumulative and toxic (PBT) or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

12.6 Other adverse effects

No statements available for any of the ingredients.

SECTION 13: DISPOSAL CONSIDERATIONS**13.1 Waste treatment methods****Product:**

Can be disposed of with household garbage after consulting with the waste disposal facility operator and the pertinent authorities and adhering to the necessary technical regulations. Smaller quantities can be disposed of with household waste.

Waste material:

Disposal must be made according to official regulations.

SECTION 14: TRANSPORT INFORMATION**14.1 UN number**

ADR/RID/IDMG/IATA: Non-regulated

14.2 UN proper shipping name

ADR/RID/IDMG/IATA: Non-regulated

14.3 Transport hazard class(es)

ADR/RID/IDMG/IATA: Non-regulated

14.4 Packing group

ADR/RID/IDMG/IATA: Non-regulated

14.5 Environmental hazards

ADR/RID/IDMG/IATA: Non-regulated

14.6 Special precautions for user

No statements available.

14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Not applicable, as product is not shipped in bulk.

SECTION 15: REGULATORY INFORMATION**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

No restrictions applicable, according to appendix XVII of REACH.

15.2 Chemical safety assessment

No Chemical Safety Assessment has been carried out for this substance/mixture by the supplier.

SECTION 16: OTHER INFORMATION**Complete text of Globally Harmonized System of Classification and Labelling of Chemicals hazard statements as listed in section 3:**

H302 – Harmful 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.



SAFETY DATA SHEET

Product Names: Chrome Replica Solution

Revision number: 001 Date: 15/01/2023

H319 – Causes serious eye irritation.

H331 – Toxic if inhaled.

H332 – Harmful if inhaled.

H360FD – May damage fertility. May damage the unborn child.

Further information

The information presented in this Safety Data Sheet (SDS) is accurate to the best of our knowledge at the date of publication. The information given within the SDS is meant solely as a guide for safe handling, use, transportation, processing, storage, release and disposal. In no means can the information within the SDS be considered as a warranty or specification for quality.