

1: Identification of substance / mixture

1. Product Identifier

Mixture

Product Name **Holmium Perchlorate 40% w/w**
Product Code 40 01 4283
CAS Number
Other Names
IUPAC
MFCN Number
EC/EINECS
REACH Number

2. Relevant identified uses of the substance or mixture and uses advised against

For R&D use

3. Details of the supplier of the safety data sheet

Biochrom Ltd
1020,Cambourne Business Park
Cambourne
Cambridge
CB23 6DW
United Kingdom



Telephone: +44 (0)1223 423723
Fax: +44 (0)1223 420164
Email: enquiries@biochrom.co.uk

4. Emergency telephone number

+44 (0)1223 427890 -

2. Hazards Identification

1. Classification of the substance or mixture

H270	Ox Gas 1	R8
H290	Met Corr. 1	

No Resource File

2. Label elements

Signal Word **Danger**



Hazard Statements

H270	May cause or intensify fire; oxidiser.
H290	May be corrosive to metals.

Precautionary Phrases

Non Hazardous

3. Other Hazards

Additional precautionary phrases are located throughout the safety data sheet

3. Composition / Information on Ingredients

1. Substances

No Resource File

2. Mixtures

Concentration	Product Name	CAS Number	EC/EINECS
60%	Water[]		
40%	Holmium Perchlorate[]		

4. First Aid Measures

1. Description of first aid measures

Skin Contact Wash immediately with plenty of soap and water.

Eye Contact Rinse opened eye for several minutes under running water.

Ingestion Do not induce vomiting.
If conscious, give half a litre of water to drink immediately.
Consult a doctor.

Inhalation Supply fresh air; consult a doctor in case of complaints.

2. Most important symptoms and effects

There may be mild irritation at the site of contact.

3. Indication of any immediate medical attention

No additional measures required

5. Firefighting measures

1. Extinguishing Media

Suitable Suitable extinguishing media for surrounding fire should be used.

Unsuitable Not applicable

2. Special Hazards arising from the substance or mixture

Oxidising.
Corrosive.

3. Advice for Fire Fighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear

6. Accidental Release Measures

1. Personal Precautions

Do not attempt to take action without suitable protective clothing – see section 8 of SDS.

2. Environmental Precautions

Do not discharge into drains or rivers.

3. Methods & Materials

Wash the spillage site with large amounts of water.
Transfer to a suitable container.

4. Preventing the occurrence of secondary hazards.

None

7. Handling and Storage

1. Personal Precautions

Safe Handling No special requirements.

Protection against explosions and fires P220: Keep/Store away from clothing/paper/combustible materials.

2. Conditions for safe storage, including any incompatibilities

Managing Storage Risks Keep container tightly closed.
Keep away from combustible materials.

Storage Controls No special requirements

Maintaining Integrity No special requirements

Other advice No further information available.

3. Specific End Uses

The end use(s) have not been fully determined. The substance is supplied for Research and Development purposes by professionals only.

8. Exposure Controls/Personal Protection

1. Control Parameters

No Data Available

2. Exposure Controls

<i>General protective and hygiene measures</i>	The standard precautionary measures should be adhered to when handling
<i>Engineering measures</i>	The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.
<i>Eye / Face Protection</i>	Safety Glasses with side-shields.
<i>Hand protection</i>	Protective gloves.
<i>Respiratory protection</i>	Respiratory protection not required.
<i>Skin protection</i>	Protective clothing.
<i>Other personal protection advice</i>	No data.

9. Physical and Chemical Properties

1. Physical and Chemical Properties

Appearance	Clear pink
Odour	No Data Available
Odour threshold	No Data Available
PH	No Data Available
Melting point / Freezing point	No Data Available
Initial boiling point and boiling range	No Data Available
Flash point	No Data Available
Evaporation rate	No Data Available
Flammability(solid,gas)	No Data Available
Upper/lower flammability or explosive limits	No Data Available
Vapour pressure	No Data Available
Vapour density	No Data Available
Relative density	No Data Available
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
Oxidising properties	No Data Available

2. Other Information

No additional information available

10. Stability and Reactivity

1. Reactivity

No information available

2. Stability

Stable under normal conditions.

3. Possibility of Hazardous Reactions

No hazardous reactions known.

4. Conditions to Avoid

Incompatible products

5. Incompatible Materials

Reducing agents.
Metals.

6. Hazardous Decomposition Products

Not applicable

11. Toxicology information

1. Information

<i>Acute Toxicity</i>	No information available
<i>Skin corrosion/irritation</i>	Irritant for skin and mucous membranes.
<i>Serious eye Damage/irritation</i>	Irritant effect.
<i>Respiratory or skin sensitisation</i>	No information available
<i>Germ Cell mutagenicity</i>	No information available
<i>Carcinogenicity</i>	No information available
<i>Reproductive toxicity</i>	No information available
<i>STOT-single exposure</i>	No information available
<i>STOT-repeated exposure</i>	No information available
<i>Aspiration hazard</i>	No information available

2. Additional

No additional information available

12. Ecological Information

1. Toxicity

No information available

2. Persistence and degradability

No information available

3. Bio-Accumulative Potential

No information available

4. Mobility and Soil

No information available

5. Results of PBT & vPvB assessment

No information available

6. Other adverse effects

No information available

13. Disposal Considerations

1. Waste Treatment Methods

Disposal Operations Consult state, local or national regulations for proper disposal.

Disposal of Packaging Disposal must be made according to official regulations.

14. Transport Information

Air (ICAO)

1. **UN Number:**
2. **Shipping Name:** Non Hazardous
3. **Transport hazard class(es):** : Sub Class :

4. **Packing group:**
5. **Environmental hazards:**
6. **Special Precautions for user:**
7. **Transport in bulk:**

Road (ADR)

1. **UN Number:**
2. **Shipping Name:** None Hazardous
3. **Transport hazard class(es):** : Sub Class :

4. **Packing group:**
5. **Environmental hazards:**
6. **Special Precautions for user:**
7. **Transport in bulk:**

Sea (IMDG)

1. **UN Number:**
2. **Shipping Name:** Non Hazardous
3. **Transport hazard class(es):** : Sub Class :

4. **Packing group:**
5. **Environmental hazards:**
6. **Special Precautions for user:**
7. **Transport in bulk:**

15. Safety, health, environmental and national regulations

1. Safety, health, environmental and national regulations:

Product is not subject to any additional regulations or provisions.

2. Safety Assessment

No Chemical Safety Assessment

16. Other Information

1. Other Information:

This safety data sheet complies to the requirements of Regulation (EC) No. 1907/2006

2. Associated risk phrases according to european directive 67/548/EEC

R8 Contact with combustible material may cause fire.



3. Disclaimer

The information provided on this SDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process unless specified in the text