
MATERIAL SAFETY DATA SHEET

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

Product name: CHROMIC ACID SOLUTION 5% AQUEOUS
Product Code: NSI-003933
Brand: Solmedia Ltd

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

Identified uses – PC21: Laboratory chemicals.

1.3 Details of the supplier of the safety data sheet

- Name of Supplier: Solmedia Ltd.
- Address of Supplier: Unit 2, Vernon Drive
Battlefield Enterprise Park
Shrewsbury
SY1 3TF
UK
- Telephone: 0844 80 80 900
- Email: labsupplies@solmedialtd.com

1.4 Emergency telephone number

Emergency Phone # +44 (0)844 80 80 900

SECTION 2: Hazards identification**Classification under CLP:**

STOT RE 2: H373; Acute Tox. 4: H332; Aquatic Chronic 2: H411;
Carc. 1A: H350; Muta. 1B: H340; Repr. 2: H361f; Resp. Sens. 1: H334;
Skin Corr. 1A: H314; Skin Sens. 1: H317; STOT SE 3: H335

Most important adverse effects:

Causes severe skin burns and eye damage. May cause an allergic skin reaction.
Harmful if inhaled.
May cause allergy or asthma symptoms or breathing difficulties if inhaled.
May cause respiratory irritation.
May cause genetic defects.
May cause cancer.
Suspected of damaging fertility.
May cause damage to organs through prolonged or repeated exposure.
Toxic to aquatic life with long lasting effects

2.2 Label elements

Hazard statements:

H314: Causes severe skin burns and eye damage.
 H317: May cause an allergic skin reaction.
 H332: Harmful if inhaled.
 H335: May cause respiratory irritation.
 H340: May cause genetic defects.
 H350: May cause cancer.
 H361f: Suspected of damaging fertility..
 H351: Suspected of causing cancer.
 H373: May cause damage to organs through prolonged or repeated exposure.
 H411: Toxic to aquatic life with long lasting effects.

Signal words: Danger

Hazard pictograms:

GHS05: Corrosion
 GHS07: Exclamation mark
 GHS08: Health hazard
 GHS09: Environmental



Precautionary statements:

P260: Do not breathe dust
 P280: Wear protective gloves/protective clothing/eye protection/face protection.
 P304+340: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
 P305+351+338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 P308+313: IF exposed or concerned: Get medical.

2.3 Other hazards

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

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Hazardous ingredients:

CHROMIUM TRIOXIDE

EINECS	CAS	CLP Classification	Percent
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215-607-8	1333-82-0	Ox. Sol. 1: H271; Carc. 1A: H350; Muta. 1B: H340; Repr. 2: H361f; Acute Tox. 2: H330; Acute Tox. 3: H311; Acute Tox. 3: H301; STOT RE 1: H372; Skin Corr. 1A: H314; Resp. Sens. 1: H334; Skin Sens. 1: H317; Aquatic Chronic 1: H410; Aquatic Acute 1: H400	5.000%
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SECTION 4: First aid measures

4.1 Description of first aid measures

Skin contact:	Remove all contaminated clothes and footwear immediately unless stuck to skin. Drench the affected skin with running water for 10 minutes or longer if substance is still on skin. Consult a doctor.
Eye contact:	Bathe the eye with running water for 15 minutes. Consult a doctor.
Ingestion:	Wash out mouth with water. Do not induce vomiting. If conscious, give half-a litre of water to drink immediately. Consult a doctor.
Inhalation:	Remove casualty from exposure ensuring one's own safety whilst doing so. Consult a doctor.

4.2 Most important symptoms and effects, both acute and delayed

Skin contact:	There may be irritation and redness at the site of contact.
Eye contact:	There may be irritation and redness. The eyes may water profusely
Ingestion:	There may be soreness and redness of the mouth and throat. Nausea and stomach pain may occur. There may be vomiting.
Inhalation:	There may be irritation of the throat with a feeling of tightness in the chest.
Delayed / immediate effects:	

Immediate effects can be expected after short-term exposure.

4.3 Indication of any immediate medical attention and special treatment needed

Not applicable

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media for the surrounding fire should be used. Use water spray to cool containers

5.2 Special hazards arising from the substance or mixture

In combustion emits toxic fumes.

5.3 Advice for firefighters

Wear self-contained breathing apparatus. Wear protective clothing to prevent contact with skin and eyes.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Refer to section 8 of SDS for personal protection details. If outside do not approach from downwind. If outside keep bystanders upwind and away from danger point. Mark out the contaminated area with signs and prevent access to unauthorised personnel. Turn leaking containers leak-side up to prevent the escape of liquid.

6.2 Environmental precautions

Do not discharge into drains or rivers. Contain the spillage using bunding

6.3 Methods and materials for containment and cleaning up

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

6.4 Reference to other sections

Refer to section 8 of SDS

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Handling requirements:

Avoid direct contact with the substance. Ensure there is sufficient ventilation of the area.
Do not handle in a confined space. Avoid the formation or spread of mists in the air.

7.2 Conditions for safe storage, including any incompatibilities

Storage conditions:

Store in cool, well ventilated area. Keep container tightly closed. The floor of the storage room must be impermeable to prevent the escape of liquids

7.3 Specific end use(s)

No data available

SECTION 8: Exposure controls/personal protection**8.1 Control parameters****Workplace exposure limits:**

No data available

DNEL / PNEC:

No data available.

8.2 Exposure controls**Engineering measures:**

Ensure there is sufficient ventilation of the area. The floor of the storage room must be impermeable to prevent the escape of liquids

Respiratory protection:

Self-contained breathing apparatus must be available in case of emergency.

Hand protection:

Impermeable gloves

Eye protection

Safety glasses. Ensure eye bath is to hand.

Skin protection:

Impermeable protective clothing.

SECTION 9: Physical and chemical properties**9.1 Information on basic physical and chemical properties**

State: Liquid

Colour: Orange

Solubility in water: Soluble

9.2 Other safety information

No data available

SECTION 10: Stability and reactivity

10.1 Reactivity

Stable under recommended transport or storage conditions.

10.2 Chemical stability

Stable under normal conditions.

10.3 Possibility of hazardous reactions

Hazardous reactions will not occur under normal transport or storage conditions. Decomposition may occur on exposure to conditions or materials listed below.

10.4 Conditions to avoid

Heat

10.5 Incompatible materials

Strong oxidising agents. Strong acids.

10.6 Hazardous decomposition products

In combustion emits toxic fumes

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Hazardous ingredients:

CHROMIUM TRIOXIDE:

IVN	RAT	LD50	9260	µg/kg
ORL	MUS	LD50	127	mg/kg
ORL	RAT	LD50	80	mg/kg

Relevant effects for mixture:

Effect	Route	Basis
Acute toxicity (harmful)	DRM ING	Hazardous: calculated
Acute toxicity (toxic)	INH	Hazardous: calculated
Irritation	INH	Hazardous: calculated

Corrosivity	OPT INH DRM	Hazardous: calculated
Sensitisation	INH DRM	Hazardous: calculated
Repeated dose toxicity	INH	Hazardous: calculated
Carcinogenicity	-	Hazardous: calculated
Mutagenicity	-	Hazardous: calculated
Toxicity for reproduction	-	Hazardous: calculated

Symptoms / routes of exposure

Skin contact:	There may be irritation and redness at the site of contact.
Eye contact:	There may be irritation and redness. The eyes may water profusely.
Ingestion:	There may be soreness and redness of the mouth and throat. Nausea and stomach pain may occur. There may be vomiting.
Inhalation:	There may be irritation of the throat with a feeling of tightness in the chest.

Delayed / immediate effects: Immediate effects can be expected after short-term exposure.

SECTION 12: Ecological information**12.1 Toxicity**

Ecotoxicity values: No data available

12.2 Persistence and degradability

Not biodegradable

12.3 Bioaccumulative potential

Bioaccumulation potential.

12.4 Mobility in soil

Readily absorbed into soil.

12.5 Results of PBT and vPvB assessment

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

12.6 Other adverse effects

Toxic to aquatic organisms. Toxic to soil organisms.

SECTION 13: Disposal considerations**13.1 Waste treatment methods**

Disposal operations:

Transfer to a suitable container and arrange for collection by specialised disposal company.

NB: The user's attention is drawn to the possible existence of regional or national regulations regarding disposal

SECTION 14: Transport information

14.1. UN number

UN number: UN1463

14.2. UN proper shipping name

14.3. Transport hazard class(es)

Transport class: 5.1

14.4. Packing group

Packing group: II

14.5. Environmental hazards

Environmentally hazardous:

Yes

Marine pollutant:

No

14.6. Special precautions for user

Special precautions: No special precautions.

Tunnel code: E

Transport category: 2

SECTION 15: Regulatory information

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

15.2 Chemical safety assessment

SECTION 16: Other information

Other information: This safety data sheet is prepared in accordance with Commission Regulation (EU) No 453/2010.
* indicates text in the SDS which has changed since the last revision.

Phrases used in s.2 and 3:

- H271: May cause fire or explosion; strong oxidiser.
H301: Toxic if swallowed.
H311: Toxic in contact with skin.
H314: Causes severe skin burns and eye damage.
H317: May cause an allergic skin reaction
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 <state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard>.
- H350: May cause cancer <state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard>.
- H361f: Suspected of damaging fertility.
- H372: Causes damage to organs <or state all organs affected, if known> through prolonged or repeated exposure <state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard>.
- H373: May cause damage to organs <or state all organs affected, if known> through prolonged or repeated exposure <state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard>.
- H410: Very toxic to aquatic life with long lasting effects.
- H411: Toxic to aquatic life with long lasting effects.

Further information

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Solmedia Ltd shall not be held liable for any damage resulting from handling or from contact with the above product.