
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:**

Hazard Class	Hazard Category	Hazard Statement
Single target organ toxicity (STOT) repeated exposure (RE)	Category 2	H373
Single target organ toxicity (STOT) Single exposure (SE)	Category 3	H335
Acute toxicity	Category 4	H332
Aquatic chronic	Category 2	H411
Carcinogenic	Category 1	H350
Mutagenic	Category 1B	H340
Reproductive toxicant (Repr)	Category 2	H361f
Sensitivity	Category 1	H334
Skin corrosion	Category 1A	H314
Skin sensitivity	Category 1	H317

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: Corrosive
GHS07: Irritant
GHS08: Health hazard
GHS09: Environmental hazard



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

3.1 Mixtures

Hazardous ingredients Classification according to Regulation (EC) 1272/2008 (CLP)

			Classification (Regulation (EC) No 1272/2008 [CLP])	
Hazardous Components		Amount [%]	Hazard class/ Hazard category	Hazard Statements
Name:	Chromium trioxide	5%	OXI. SOL. CAT. 1, CARC. CAT. 1A, MUTA. CAT. 1B, REPR. CAT. 2, ACUTE TOX. CAT. 2, 3, STOT RE CAT. 1, SKIN CORR. CAT. 1A, RESP. SENS. CAT. 1, SKIN SENS. CAT. 1, AQUA. CHRONIC. CAT. 1, AQUA. ACUTE CAT. 1.	H350, H340, H361F, H330, H311, H301, H372, H314, H334, H317, H410, H400.
CAS NO.	1333-82-0			
EC-NO.	215-607-8			
Name:	Deionised water	95%	N/A	N/A
CAS NO.	7732-18-2			
EC-NO.	231-791-2			

SECTION 4: First aid measures

4.1 Description of first aid measures

If exposed or if you feel unwell: Call a Poison Centre or doctor/physician. If unconscious place in recovery position and seek medical advice. Never give by mouth to an unconscious person or a person with cramps. Change contaminate, saturated clothing. Do not leave affected person unattended.

If inhaled

Call a Poison Centre/doctor. If breathed in, move person into fresh air. If not breathing, give artificial respiration.

In case of skin contact

Wash immediate off with soap and plenty of water. Remove contaminate, saturated clothing immediately. In the case of skin reactions, consult a physician.

In case of eye contact

Flush eyes immediately with plenty of flowing water for 10 to 15 minutes holding eyelids and consult an ophthalmologist. Protect uninjured eye. Remove contact lenses, if present and easy to do. Continue rinsing.

If swallowed

Never give anything by mouth to an unconscious person. Rinse mouth with plenty of water and immediately obtain medical attention. Do NOT induce vomiting. Give nothing to eat or drink.

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: UN1755

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 restriction 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.