

Chromotropic acid

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Revision: 3

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

Trade name: Chromotropic acid
Chemical name: 4,5-Dihydroxynaphthalene-2,7-disulphonic acid
CAS number: 148-25-4
REACH registration number: 01-2120762981-45-0000
Other names or synonyms: 1,8-Dihydroxynaphthylene-3,6-disulfonic acid
4,5-Dihydroxy-2,7-naphthalenedisulfonic acid

1.2 Relevant identified uses of the substance or mixture and uses advised against**1.2.1 Relevant identified uses**

Intermediate used in the manufacture of organic dyestuffs.
Industrial use.

1.2.2 Uses advised against

They are not known.

1.3 Details of the supplier of the safety data sheet

Synthesia, a.s.
Semtín 103
530 02 Pardubice
Czech Republic

Telephone: + 420 466 821 111
Fax: + 420 466 821 020
E-mail: synthesia@synthesia.eu

E-mail address of competent person: sds@synthesia.cz

1.4 Emergency telephone number**Manufacturer:**

Telephone: +420 466 824 402
Fax: +420 466 824 448

Poison Center:

Toxikologické informační středisko, Na Bojišti 1, 120 00 Praha 2, Czech Republic
Telephone: +420 224 919 293, +420 224 915 402

SECTION 2: Hazards identification**2.1 Classification of the substance or mixture****Classification according to Regulation (EC) No 1272/2008:**

Eye Irrit.2, H319
Skin Irrit.2, H315
STOT SE 3, H335

Full text of H-statements: see section 16.

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The most important adverse physical, human health and environmental effects:

Irritating to skin, eyes and respiratory tract.

2.2 Label elements



Signal word:

Warning

Hazard statements:

Causes serious eye irritation. (H319)

Causes skin irritation. (H315)

May cause respiratory irritation. (H335)

Precautionary statements:

Wear protective gloves/protective clothing/eye protection/face protection. (P280)

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.

Continue rinsing. (P305+P351+P338)

IF ON SKIN: Wash with plenty of water and soap. (P302+P352)

2.3 Other hazards

Dust particles can form an explosive mixture with air.

SECTION 3: Composition/information on ingredients

3.1 Substances

Chemical name			
Index number CAS number EC number REACH registration number	Content [wt. %]	Classification according to Regulation (EC) No 1272/2008	Specific concentration limit, multiplying factor, acute toxicity estimate
4,5-Dihydroxynaphthalene-2,7-disulphonic acid			
- 148-25-4 205-712-7 01-2120762981-45-0000		Eye Irrit.2, H319 Skin Irrit.2, H315 STOT SE 3, H335	

The full text of H-phrases, hazard class and hazard category code is given in section 16.

3.2 Mixtures

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SECTION 4: First aid measures

4.1 Description of first aid measures

In all cases keep the victim at physical and mental rest and warm. In all serious events and always in case of eye contact, get medical advice.

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4.1.1 Following inhalation

Breake the exposure, transfer the victim to the fresh air, apply artificial respiration, if the victim is not breathing.

4.1.2 Following skin contact

Take off immediately contaminated clothing and flush affected area with plenty of water (preferably lukewarm) and soap.

4.1.3 Following eye contact

Rinse with plenty of water for at least 15 minutes, get medical advice. Do not attempt to neutralize!

4.1.4 Following ingestion

Rinse the mouth with clean water, do not induce vomiting, give 1 - 2 broken tablets of charcoal in small water quantity to drink, get medical advice.

4.2 Most important symptoms and effects, both acute and delayed

Information is not available.

4.3 Indication of any immediate medical attention and special treatment needed

Information is not available.

SECTION 5: Firefighting measures**5.1 Extinguishing media****5.1.1 Suitable extinguishing media**

Water. Foam. Dry chemical powder. Carbon dioxide.

5.1.2 Unsuitable extinguishing media

Direct water jet.

5.2 Special hazards arising from the substance or mixture

Hazardous combustion products: carbon oxides, sulphur oxides.

5.3 Advice for firefighters

In the event of fire, wear self-contained breathing apparatus (EN 137) and clothing protective against chemicals.

SECTION 6: Accidental release measures**6.1 Personal precautions, protective equipment and emergency procedures****6.1.1 For non-emergency personnel**

Avoid inhalation of dust.
Avoid contact with skin and eyes.
Avoid generation of dust.
Ensure adequate ventilation.

6.1.2 For emergency responders

Use suitable personal protective equipment.

6.2 Environmental precautions

Avoid product release into a water stream and drains.

6.3 Methods and material for containment and cleaning up

Sweep up material and place in the designated closed containers.
Dispose according to the section 13.

6.4 Reference to other sections

Using of personal protective equipment - see section 8. Disposal - see section 13.

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SECTION 7: Handling and storage**7.1 Precautions for safe handling**

Avoid breathing of dust and skin and eye contact.
Use personal protective equipment (see section 8).
Ensure adequate ventilation/exhaustion of the workplace.
Avoid generation and whirl of dust.

Advice on general occupational hygiene:
Do not eat, drink or smoke during the work and observe the personal hygiene principles.
Wash with warm water and soap after handling.
Apply skin-protective cream.

7.2 Conditions for safe storage, including any incompatibilities

Store in original tightly closed containers, in a dry, cool and well-ventilated place.

7.3 Specific end use(s)

Isolated intermediate used under strictly controlled conditions.

SECTION 8: Exposure controls/personal protection**8.1 Control parameters****Occupational exposure limit values:**

not determined

8.2 Exposure controls**8.2.1 Appropriate engineering controls**

Local exhaust, ventilation.

8.2.2 Individual protection measures, such as personal protective equipment

All personal protective equipment must be kept in usable condition. Damaged or contaminated equipment must be immediately replaced.

All used personal protective equipment must be in accordance with Regulation (EU) 2016/425.

Respiratory protection:	suitable respirator when dust is generated recommended filter type P2
Hand protection:	nitrile rubber gloves
Eye/face protection:	protective chemical goggles or face shield
Body protection:	protective twilled clothing, safety shoes, cap or helmet

Thermal hazards:	not applicable
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8.2.3 Environmental exposure controls

Avoid uncontrolled release of the substance/mixture to the environment.

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

Physical state:	solid
Colour:	light brown
Odour:	not available
Melting point/freezing point:	not available
Boiling point:	not available
Flammability:	not available

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Lower explosion limit:	not applicable
Upper explosion limit:	not applicable
Flash point:	not available
Auto-ignition temperature:	not applicable
Decomposition temperature:	not available
pH:	not available
Kinematic viscosity:	not applicable
Solubility in water:	not available
Partition coefficient n-octanol/water:	not available
Vapour pressure:	not available
Density or relative density:	not available
Relative vapour density:	not applicable
Particle characteristics:	not available

9.2 Other information

Information is not available.

SECTION 10: Stability and reactivity**10.1 Reactivity**

Information is not available.

10.2 Chemical stability

Stable under normal conditions.

10.3 Possibility of hazardous reactions

No dangerous reactions known.

10.4 Conditions to avoid

Information is not available.

10.5 Incompatible materials

Strong oxidizing agents.

10.6 Hazardous decomposition products

Hazardous decomposition products are not known.

SECTION 11: Toxicological information**11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008****Acute toxicity:**

LD₅₀, oral, rat (mg/kg): No data available.

LD₅₀, dermal, rat or rabbit (mg/kg): No data available.

LC₅₀, inhalation, rat (aerosol or particle) (mg/m³): No data available.

Skin corrosion/irritation:

No data available.

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Serious eye damage/irritation:

No data available.

Respiratory or skin sensitisation:

No data available.

Germ cell mutagenicity:

No data available.

Carcinogenicity:

No data available.

Reproductive toxicity:

No data available.

STOT-single exposure:

No data available.

STOT-repeated exposure:

No data available.

Aspiration hazard:

No data available.

Symptoms related to the physical, chemical and toxicological characteristics**Following eye contact:**

Irritating.

Following skin contact:

Irritating.

Following inhalation:

May cause respiratory irritation.

The chemical, physical, and toxicological properties have not been thoroughly investigated.

11.2 Information on other hazards**11.2.1 Endocrine disrupting properties**

Information is not available.

11.2.2 Other information

Information is not available.

SECTION 12: Ecological information**12.1 Toxicity****12.1.1 Acute (short-term) aquatic toxicity**LC₅₀, 96 h, fish (mg/l): No data available.EC₅₀, 48 h, crustacea (mg/l): No data available.EC₅₀, 72 h, algae (mg/l): No data available.**12.1.2 Chronic (long-term) aquatic toxicity**

No data available.

12.1.3 Toxicity for other organisms

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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 Endocrine disrupting properties

Information is not available.

12.7 Other adverse effects

Information is not available.

SECTION 13: Disposal considerations**13.1 Waste treatment methods****13.1.1 Product disposal**

Dissolve or mix the material with a combustible solvent and incinerate at a reserved and approved place in accordance with regulations.

13.1.2 Packaging disposal

Dispose as a dangerous waste according to local regulations.

SECTION 14: Transport information

Product is not classified as dangerous goods according to transport regulations.

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

Regulation (EC) No. 1272/2008

Regulation (EC) No. 1907/2006

15.2 Chemical safety assessment

No chemical safety assessment has been carried out.

SECTION 16: Other information**Indication of changes:**

Update according to Commission Regulation (EU) 2020/878.

List of abbreviations:

CAS - Chemical Abstracts Service

EC number - EINECS (European Inventory of Existing Commercial Chemical Substance), ELINCS (European List of Notified Chemical Substances) or NLP (No-Longer-Polymers)

LD50 - lethal dose, 50%

LC50 - lethal concentration, 50%

EC50 - effective concentration, 50%

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IC50 - inhibitory concentration, 50%
PBT - persistent, bioaccumulative and toxic
vPvB - very persistent and very bioaccumulative
BCF - bioconcentration factor
COD - chemical oxygen demand
BOD - biochemical oxygen demand
DNEL - derived no-effect level
PNEC - predicted no-effect concentration
NOAEL - no observed adverse effect level
NOAEC - no observed adverse effect concentration
NOEC - no observed effect concentration
ADR - Agreement concerning the International Carriage of Dangerous Goods by Road
RID - Regulations concerning the International Carriage of Dangerous Goods by Rail
IMDG - International Maritime Dangerous Goods
ICAO - International Civil Aviation Organisation
IATA - International Air Transport Association

Key literature references and sources for data:

National legislation, chemical databases and tables.
External safety data sheet.

Relevant information for classification of the product:

ECHA - registered substances.

Relevant hazard statements:

Eye Irrit.2, H319 Serious eye damage/eye irritation, Category 2
Skin Irrit.2, H315 Skin corrosion/irritation, Category 2
STOT SE 3, H335 Specific target organ toxicity - Single exposure, Category 3, Respiratory tract irritation
H319 Causes serious eye irritation.
H315 Causes skin irritation.
H335 May cause respiratory irritation.

Training advice:

In compliance with safety data sheet.

The above information corresponds to the current level of our knowledge and experience. The data merely describe the product with respect to safety and cannot be construed as guaranteed parameters. The user is responsible for handling in compliance with the existing laws and regulations.