

Safety data sheet

according to 1907/2006/EC, Article 31

Revision: 14.12.2010

Printing date 14.12.2010

1 Identification of the substance/mixture and of the company/undertaking

Product identifier

Trade name

8-Chloronaphthalene-1-sulfonic acid dihydrate

Stock number:

B20948

EINECS Number:

205-662-6

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

Sector of Use

SU24 Scientific research and development

Details of the supplier of the safety data sheet

Manufacturer/Supplier:

Alfa Aesar GmbH & Co.KG
Benzstrasse 3
D-76185 Karlsruhe / GermanyE-mail: gcat@matthey.com
www.alfa-chemcat.com

Informing department:

Product safety department.

Emergency telephone number:

Giftnotruf Universität Mainz / Poison Information Center Mainz
www.giftinfo.uni-mainz.de Telefon: +49(0)6131/19240

2 Hazards identification

Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008



GHS05 corrosion

Skin Corr. 1C H314 Causes severe skin burns and eye damage.

Classification according to Directive 67/548/EEC or Directive 1999/45/EC



C; Corrosive

R34: Causes burns.

Label elements

Labelling according to Regulation (EC) No 1272/2008

Hazard pictograms

The substance is classified and labelled according to the CLP regulation.



GHS05

Signal word

Hazard statements

Precautionary statements

Danger

H314 Causes severe skin burns and eye damage.

P280

Wear protective gloves/protective clothing/eye protection/face protection.

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

P309

IF exposed or if you feel unwell:

Immediately call a POISON CENTER or doctor/physician.

P310

Other hazards

Results of PBT and vPvB assessment

PBT:

Not applicable.

vPvB:

Not applicable.

3 Composition/information on ingredients

Chemical characterization: Substances

(CAS#) Designation:

8-Chloronaphthalene-1-sulfonic acid dihydrate
(CAS# 1171630-97-9)

Identification number(s):

EINECS Number:

205-662-6

4 First aid measures

Description of first aid measures

General information

After inhalation

Instantly remove any clothing soiled by the product.

Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.

After skin contact

Seek immediate medical advice.

Instantly wash with water and soap and rinse thoroughly.

After eye contact

Seek immediate medical advice.

After swallowing

Rinse opened eye for several minutes under running water. Then consult doctor.

Seek immediate medical advice.

5 Firefighting measures

Extinguishing media

Suitable extinguishing agents

Special hazards arising from the substance or mixture

CO₂, extinguishing powder or water jet. Fight larger fires with water jet or alcohol-resistant foam.

Advice for firefighters

Protective equipment:

Can be released in case of fire:
Carbon monoxide and carbon dioxide
Sulphur oxides (SO_x)
Hydrogen chloride (HCl)Wear self-contained breathing apparatus.
Wear full protective suit.

6 Accidental release measures

Personal precautions, protective equipment and emergency procedures

Environmental precautions:

Methods and material for containment and cleaning up:

Reference to other sections

Wear protective equipment. Keep unprotected persons away.

Ensure adequate ventilation

Do not allow material to be released to the environment without proper governmental permits.

Use neutralizing agent.

Dispose of contaminated material as waste according to item 13.

Ensure adequate ventilation.

See Section 7 for information on safe handling

See section 8 for information on personal protection equipment.

See Section 13 for information on disposal.

7 Handling and storage

Handling

Precautions for safe handling

Keep containers tightly sealed.

Store in cool, dry place in tightly closed containers.

Ensure good ventilation/exhaustion at the workplace.

(Contd. on page 2)
GB

Safety data sheet
according to 1907/2006/EC, Article 31

Printing date 14.12.2010

Revision: 14.12.2010

Trade name **8-Chloronaphthalene-1-sulfonic acid dihydrate**

(Contd. of page 1)

Information about protection against explosions and fires:

Keep ignition sources away - Do not smoke.

Conditions for safe storage, including any incompatibilities**Storage****Requirements to be met by storerooms and containers:**

No special requirements.

Information about storage in one common storage facility:Store away from oxidizing agents.
Store away from strong bases.**Further information about storage conditions:**Keep container tightly sealed.
Store in cool, dry conditions in well sealed containers.
Store in a locked cabinet or with access restricted to technical experts or their assistants.**8 Exposure controls/personal protection****Additional information about design of technical systems:**

Properly operating chemical fume hood designed for hazardous chemicals and having an average face velocity of at least 100 feet per minute.

Control parameters**Components with critical values that require monitoring at the workplace:**

Not required.

Additional information:

No data

Exposure controls**Personal protective equipment****General protective and hygienic measures**

The usual precautionary measures should be adhered to in handling the chemicals.

Keep away from foodstuffs, beverages and food.
Instantly remove any soiled and impregnated garments.
Wash hands during breaks and at the end of the work.
Avoid contact with the eyes and skin.**Breathing equipment:**

Use breathing protection with high concentrations.

Protection of hands:

Check protective gloves prior to each use for their proper condition.

Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

Penetration time of glove material

Impervious gloves

Eye protection:

Not determined

Safety glasses

Tightly sealed safety glasses.

Face protection

Full face protection

Body protection:

Protective work clothing.

9 Physical and chemical properties**Information on basic physical and chemical properties****General Information****Appearance:****Form:** Crystalline**Colour:** White**Smell:** Odourless**Odour threshold:** Not determined.**pH-value:** Not applicable.**Change in condition****Melting point/Melting range:** 145-147°C**Boiling point/Boiling range:** Not determined**Sublimation temperature / start:** Not determined**Flash point:** Not applicable**Inflammability (solid, gaseous)** Not determined.**Ignition temperature:** Not determined**Decomposition temperature:** Not determined**Self-inflammability:** Not determined.**Danger of explosion:** Product is not explosive.**Critical values for explosion:****Lower:** Not determined**Upper:** Not determined**Steam pressure:** Not applicable.**Density** Not determined**Relative density** Not determined.**Vapour density** Not applicable.**Evaporation rate** Not applicable.**Solubility in / Miscibility with****Water:** Soluble**Segregation coefficient (n-octanol/water):** Not determined.**Viscosity:****dynamic:** Not applicable.**kinematic:** Not applicable.**Other information** No further relevant information available.**10 Stability and reactivity****Reactivity****Chemical stability****Thermal decomposition / conditions to be avoided:**

No decomposition if used and stored according to specifications.

Possibility of hazardous reactions

No dangerous reactions known

Incompatible materials:

Oxidizing agents

Bases

Hazardous decomposition products:

Carbon monoxide and carbon dioxide

Sulphur oxides (SO_x)(Contd. on page 3)
GB

Safety data sheet
according to 1907/2006/EC, Article 31

Printing date 14.12.2010

Revision: 14.12.2010

Trade name **8-Chloronaphthalene-1-sulfonic acid dihydrate**

Hydrogen chloride (HCl)

(Contd. of page 2)

11 Toxicological information**Information on toxicological effects****Acute toxicity:****Primary irritant effect:****on the skin:****on the eye:****Sensitization:****Additional toxicological information:**Corrosive effect on skin and mucous membranes.
Strong corrosive effect.

No sensitizing effect known.

To the best of our knowledge the acute and chronic toxicity of this substance is not fully known.
Swallowing will lead to a strong caustic effect on mouth and throat and to the danger of perforation of esophagus and stomach.

No classification data on carcinogenic properties of this material is available from the EPA, IARC, NTP, OSHA or ACGIH.

12 Ecological information**Toxicity****Acquatic toxicity:****Persistence and degradability****Behaviour in environmental systems:****Bioaccumulative potential****Mobility in soil****Additional ecological information:****General notes:****Results of PBT and vPvB assessment****PBT:****vPvB:****Other adverse effects**

No further relevant information available.

No further relevant information available.

No further relevant information available.

No further relevant information available.

Do not allow material to be released to the environment without proper governmental permits.

Not applicable.

Not applicable.

No further relevant information available.

13 Disposal considerations**Waste treatment methods****Recommendation**Hand over to disposers of hazardous waste.
Must be specially treated under adherence to official regulations.
Consult state, local or national regulations for proper disposal.**Uncleaned packagings:****Recommendation:****Recommended cleaning agent:**Disposal must be made according to official regulations.
Water, if necessary with cleaning agent.**14 Transport information****Land transport ADR/RID and GGVS/GGVE (cross-border/domestic)****ADR/RID-GGVS/E Class:****Kemler Number:****UN-Number:****Packaging group:****Label****UN proper shipping name:****Limited quantities (LQ)****Transport category****Tunnel restriction code**

8 (C4) Corrosive substances.

80

2585

III

8

2585 ARYLSULPHONIC ACIDS, SOLID (8-Chloronaphthalene-1-sulfonic acid dihydrate)

LQ24

3

E

Maritime transport IMDG/GGVSea:**IMDG/GGVSea Class:****UN Number:****Label****Packaging group:****EMS Number:****Marine pollutant:****Segregation groups****Correct technical name:**

8

2585

8

III

F-A,S-B

No

Acids

ARYLSULPHONIC ACIDS, SOLID

Air transport ICAO-TI and IATA-DGR:**ICAO/IATA Class:****UN/ID Number:****Label****Packaging group:****Correct technical name:**

8

2585

8

III

ARYLSULPHONIC ACIDS, SOLID

UN "Model Regulation":UN2585, ARYLSULPHONIC ACIDS, SOLID, 8, III
Warning: Corrosive substances.**Special precautions for user****Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code**

Not applicable.

15 Regulatory information**Safety, health and environmental regulations/legislation specific for the substance or mixture****Labelling according to Regulation (EC) No 1272/2008****Hazard pictograms**

The substance is classified and labelled according to the CLP regulation.



GHS05

Danger

H314 Causes severe skin burns and eye damage.

Signal word**Hazard statements**(Contd. on page 4)
GB

Safety data sheet
according to 1907/2006/EC, Article 31

Printing date 14.12.2010

Revision: 14.12.2010

Trade name **8-Chloronaphthalene-1-sulfonic acid dihydrate**

		(Contd. of page 3)
Precautionary statements	P280 P305+P351+P338 P309 P310	Wear protective gloves/protective clothing/eye protection/face protection. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. IF exposed or if you feel unwell: Immediately call a POISON CENTER or doctor/physician.
National regulations		
Information about limitation of use:	For use only by technically qualified individuals. Employment restrictions concerning young persons must be observed.	
Chemical safety assessment:	A Chemical Safety Assessment has not been carried out.	

16 Other information

Employers should use this information only as a supplement to other information gathered by them, and should make independent judgement of suitability of this information to ensure proper use and protect the health and safety of employees. This information is furnished without warranty, and any use of the product not in conformance with this Material Safety Data Sheet, or in combination with any other product or process, is the responsibility of the user.

Department issuing data specification sheet: Health, Safety and Environmental Department.**Contact:** Ryan P. Wilson**Abbreviations and acronyms:**

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)
IMDG: International Maritime Code for Dangerous Goods
IATA: International Air Transport Association
IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)
ICAO: International Civil Aviation Organization
ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO)
GHS: Globally Harmonized System of Classification and Labelling of Chemicals
EINECS: European Inventory of Existing Commercial Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)

GB