SAFETY DATA SHEET according to Regulation (EC) No. 1907/2006 Revision Date 02.05.2019

Version 3.10

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

1.4 Emergency telephone number	Please contact the regional company representation in your country.	
Responsible Department	LS-QHC * e-mail: prodsafe@merckgroup.com	
Company	Merck KGaA * 64271 Darmstadt * Germany * Phone:+49 6151 72-0	
1.3 Details of the supplier of the safety data sheet		
Identified uses	Chemical for synthesis For additional information on uses please refer to the Merck Chemicals portal (www.merckgroup.com).	
1.2 Relevant identified us	es of the substance or mixture and uses advised against	
CAS-No.	5965-83-3	
REACH Registration Number	A registration number is not available for this substance as the substance or its use are exempted from registration according to Article 2 REACH Regulation (EC) No 1907/2006, the annual tonnage does not require a registration or the registration is envisaged for a later registration deadline.	
Product name	5-Sulfosalicylic acid dihydrate for synthesis	
Catalogue No.	800691	
2		

SECTION 2. Hazards identification

2.1 Classification of the substance or mixture Classification (REGULATION (EC) No 1272/2008)

Acute toxicity, Category 4, Oral, H302 Skin irritation, Category 2, H315 Eye irritation, Category 2, H319 For the full text of the H-Statements mentioned in this Section, see Section 16.



Catalogue No. Product name

2.2 Label elements Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms



Signal word Warning

Hazard statements H302 Harmful if swallowed. H315 Causes skin irritation. H319 Causes serious eye irritation.

Precautionary statements Response P302 + P352 IF ON SKIN: Wash with plenty of soap and water. P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Reduced labelling (≤125 ml)



Signal word Warning

CAS-No. 5965-83-3

2.3 Other hazards

None known.

SECTION 3. Composition/information on ingredients

3.1 Substance

Formula	C7H6O6S * 2 H2O (Hill)
EC-No.	202-555-6
Molar mass	254,22 g/mol

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Hazardous components (REGULATION (EC) No 1272/2008)

Chemical name (Concentration) CAS-No. Registration Classification number

Sulphosalicylic acid dihydrate (<= 100 %)

5965-83-3 *)

Acute toxicity, Category 4, H302 Skin irritation, Category 2, H315 Eye irritation, Category 2, H319

*) A registration number is not available for this substance as the substance or its use are exempted from registration according to Article 2 REACH Regulation (EC) No 1907/2006, the annual tonnage does not require a registration or the registration is envisaged for a later registration deadline.

For the full text of the H-Statements mentioned in this Section, see Section 16.

3.2 Mixture

Not applicable

SECTION 4. First aid measures

4.1 Description of first aid measures

After inhalation: fresh air.

In case of skin contact: Take off immediately all contaminated clothing. Rinse skin with water/ shower.

After eye contact: rinse out with plenty of water. Call in ophthalmologist. Remove contact lenses.

After swallowing: immediately make victim drink water (two glasses at most). Consult a physician.

4.2 Most important symptoms and effects, both acute and delayed

Diarrhoea, Nausea, Vomiting irritant effects

4.3 Indication of any immediate medical attention and special treatment needed No information available.

SECTION 5. Firefighting measures

5.1 Extinguishing media Suitable extinguishing media Water, Foam, Carbon dioxide (CO2), Dry powder

Unsuitable extinguishing media For this substance/mixture no limitations of extinguishing agents are given.

5.2 Special hazards arising from the substance or mixture Combustible.

Vapours are heavier than air and may spread along floors. Forms explosive mixtures with air on intense heating.



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Development of hazardous combustion gases or vapours possible in the event of fire. Fire may cause evolution of: Sulphur oxides

5.3 Advice for firefighters

Special protective equipment for firefighters Stay in danger area only with self-contained breathing apparatus. Prevent skin contact by keeping a safe distance or by wearing suitable protective clothing.

Further information

Suppress (knock down) gases/vapours/mists with a water spray jet. Prevent fire extinguishing water from contaminating surface water or the ground water system.

SECTION 6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures Advice for non-emergency personnel: Avoid inhalation of dusts. Avoid substance contact. Ensure adequate ventilation. Evacuate the danger area, observe emergency procedures, consult an expert.

Advice for emergency responders:

Protective equipment see section 8.

6.2 Environmental precautions

Do not let product enter drains.

6.3 Methods and materials for containment and cleaning up

Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions (see sections 7 and 10). Take up dry. Dispose of properly. Clean up affected area. Avoid generation of dusts.

6.4 Reference to other sections

Indications about waste treatment see section 13.

SECTION 7. Handling and storage

7.1 Precautions for safe handling

Advice on safe handling Observe label precautions.

Hygiene measures Immediately change contaminated clothing. Apply preventive skin protection. Wash hands and face after working with substance.

7.2 Conditions for safe storage, including any incompatibilities

Storage conditions Protected from light.

Tightly closed. Dry.

Recommended storage temperature see product label.



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7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated.

SECTION 8. Exposure controls/personal protection

8.1 Control parameters

8.2 Exposure controls

Engineering measures

Technical measures and appropriate working operations should be given priority over the use of personal protective equipment.

See section 7.1.

Individual protection measures

Protective clothing needs to be selected specifically for the workplace, depending on concentrations and quantities of the hazardous substances handled. The chemical resistance of the protective equipment should be enquired at the respective supplier.

Eye/face protection Safety glasses

Hand protection

full contact:

	Glove material: Glove thickness: Break through time:	Nitrile rubber 0,11 mm > 480 min
splash contact:		
	Glove material:	Nitrile rubber
	Glove thickness:	0,11 mm
	Break through time:	> 480 min

The protective gloves to be used must comply with the specifications of EC Directive 89/686/EEC and the related standard EN374, for example KCL 741 Dermatril® L (full contact), KCL 741 Dermatril® L (splash contact).

The breakthrough times stated above were determined by KCL in laboratory tests acc. to EN374 with samples of the recommended glove types.

This recommendation applies only to the product stated in the safety data sheet, supplied by us and for the designated use. When dissolving in or mixing with other substances and under conditions deviating from those stated in EN374 please contact the supplier of CE-approved gloves (e.g. KCL GmbH, D-36124 Eichenzell, Internet: www.kcl.de).

Other protective equipment protective clothing

Respiratory protection required when dusts are generated. Recommended Filter type: Filter P 2 (acc. to DIN 3181) for solid and liquid particles of harmful substances The entrepeneur has to ensure that maintenance, cleaning and testing of respiratory

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protective devices are carried out according to the instructions of the producer. These measures have to be properly documented.

Environmental exposure controls

Do not let product enter drains.

SECTION 9. Physical and chemical properties 9.1 Information on basic physical and chemical properties

Form	crystals
Colour	light grey
Odour	slight
Odour Threshold	No information available.
рН	< 0,5 at 200 g/l 20 °C
Melting point/range	109 - 117 °C Method: OECD Test Guideline 102
Boiling point/boiling range	> 117 °C Method: OECD Test Guideline 103 Decomposition
Flash point	ca. 150 °C
Evaporation rate	No information available.
Flammability (solid, gas)	Test N.1: Test method for readily combustible solids The product is not flammable.
Lower explosion limit	No information available.
Upper explosion limit	No information available.
Vapour pressure	< 1 hPa at 20 °C
Relative vapour density	No information available.
Density	1,6393 g/cm3 at 20 °C Method: OECD Test Guideline 109
Relative density	No information available.

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Catalogue No. Product name	800691 5-Sulfosalicylic acid dihydrate for synthesis
Water solubility	987 g/l at 20 °C Method: OECD Test Guideline 105
Partition coefficient: n- octanol/water	log Pow: -2,13 OECD Test Guideline 107 Bioaccumulation is not expected.
Auto-ignition temperature	No information available.
Decomposition temperature	> 117 °C
Viscosity, dynamic	No information available.
Explosive properties	Not classified as explosive.
Oxidizing properties	none
9.2 Other data	
Bulk density	ca.310 kg/m3
Particle size	Particle size 371 µm Method: OECD Test Guideline 110

SECTION 10. Stability and reactivity

10.1 Reactivity

Forms explosive mixtures with air on intense heating.

A range from approx. 15 Kelvin below the flash point is to be rated as critical. The following applies in general to flammable organic substances and mixtures: in correspondingly fine distribution, when whirled up a dust explosion potential may generally be assumed.

10.2 Chemical stability

Sensitivity to light

10.3 Possibility of hazardous reactions

Violent reactions possible with:

strong alkalis, Strong oxidizing agents

10.4 Conditions to avoid

Strong heating.

10.5 Incompatible materials

no information available

10.6 Hazardous decomposition products

in the event of fire: See section 5.





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SECTION 11. Toxicological information 11.1 Information on toxicological effects

Acute oral toxicity LD50 Rat: 1.850 mg/kg

(anhydrous substance) (RTECS)

Symptoms: Nausea, Vomiting, Diarrhoea, Irritations of mucous membranes in the mouth, pharynx, oesophagus and gastrointestinal tract. absorption

Acute inhalation toxicity

Symptoms: Possible damages:, mucosal irritations

Acute dermal toxicity This information is not available.

Skin irritation Causes skin irritation.

Eye irritation Causes serious eye irritation.

Sensitisation This information is not available.

Germ cell mutagenicity Genotoxicity in vitro Ames test Escherichia coli/Salmonella typhimurium Result: negative Method: OECD Test Guideline 471

Carcinogenicity This information is not available.

Reproductive toxicity This information is not available.

Teratogenicity This information is not available.

Specific target organ toxicity - single exposure This information is not available.

Specific target organ toxicity - repeated exposure This information is not available.

Aspiration hazard This information is not available.

11.2 Further information

After absorption: We have no description of any symptoms of toxicity. Other dangerous properties can not be excluded. Handle in accordance with good industrial hygiene and safety practice.

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SECTION 12. Ecological information

12.1 Toxicity

Toxicity to daphnia and other aquatic invertebrates static test EC50 Daphnia magna (Water flea): > 100 mg/l; 48 h Analytical monitoring: yes OECD Test Guideline 202

Toxicity to algae

Growth inhibition NOEC Pseudokirchneriella subcapitata (green algae): 100 mg/l; 72 h

Analytical monitoring: yes OECD Test Guideline 201

Growth inhibition ErC50 Pseudokirchneriella subcapitata (green algae): > 100 mg/l; 72 h Analytical monitoring: yes

OECD Test Guideline 201

12.2 Persistence and degradability No information available.

12.3 Bioaccumulative potential

Partition coefficient: n-octanol/water log Pow: -2,13 OECD Test Guideline 107

Bioaccumulation is not expected.

12.4 Mobility in soil

No information available.

12.5 Results of PBT and vPvB assessment

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted.

12.6 Other adverse effects

Additional ecological information Biological effects: Harmful effect due to pH shift. Discharge into the environment must be avoided.

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SECTION 13. Disposal considerations

Waste treatment methods See www.retrologistik.com for processes regarding the return of chemicals and containers, or contact us there if you have further questions.

SECTION 14. Transport information

Land transport (ADR/RID)
14.1 UN number	UN 2585
14.2 Proper shipping name	ARYLSULPHONIC ACIDS, SOLID
14.3 Class	8
14.4 Packing group	III
14.5 Environmentally hazardous	
14.6 Special precautions for user	yes
Tunnel restriction code	E
Inland waterway transpor Not relevant	t (ADN)
Air transport (IATA)	
14.1 UN number	UN 2585
14.2 Proper shipping name	ARYLSULPHONIC ACIDS, SOLID
14.3 Class	8
14.4 Packing group	III
14.5 Environmentally hazardous	
14.6 Special precautions for user	no
Sea transport (IMDG)	
14.1 UN number	UN 2585
14.2 Proper shipping name	ARYLSULPHONIC ACIDS, SOLID
14.3 Class	8
14.4 Packing group	III
14.5 Environmentally hazardous	
14.6 Special precautions	yes
for user EmS	F-A S-B

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14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not relevant

SECTION 15. Regulatory information

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

<i>EU regulations</i> Major Accident Hazard Legislation	SEVESO III Not applicable	
Occupational restrictions	Take note of Dir 94/33/EC on the protection of young people at work. Observe work restrictions regarding maternity protection in accordance to Dir 92/85/EEC or stricter national regulations where applicable.	
Regulation (EC) No 1005/ that deplete the ozone lay		not regulated
Regulation (EC) No 850/2004 of the not regulated European Parliament and of the Council of 29 April 2004 on persistent organic pollutants and amending Directive 79/117/EEC		
Substances of very high concern (SVHC)		This product does not contain substances of very high concern according to Regulation (EC) No 1907/2006 (REACH), Article 57 above the respective regulatory concentration limit of \geq 0.1 % (w/w).
<i>National legislation</i> Storage class	8A	

15.2 Chemical safety assessment

For this product a chemical safety assessment was not carried out.

SECTION 16. Other information

Full text of H-Statements referred to under sections 2 and 3.

H302	Harmful if swallowed.
H315	Causes skin irritation.
H319	Causes serious eye irritation.

Training advice

Provide adequate information, instruction and training for operators.

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Labelling Hazard pictograms



Signal word Warning

Hazard statements H302 Harmful if swallowed. H315 Causes skin irritation. H319 Causes serious eye irritation.

Precautionary statements Response P302 + P352 IF ON SKIN: Wash with plenty of soap and water. P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P313 Get medical advice/ attention.

Key or legend to abbreviations and acronyms used in the safety data sheet

Used abbreviations and acronyms can be looked up at www.wikipedia.org.

Regional representation

This information is given on the authorised Safety Data Sheet for your country.

The information contained herein is based on the present state of our knowledge. It characterises the product with regard to the appropriate safety precautions. It does not represent a guarantee of any properties of the product.

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