

**Safety Data Sheet**

according to Regulation (EC) No 1907/2006

**Salicylate Citrate solution for photometric determination of ammonium-N according to DIN  
38406:1983,**

Revision: 10.03.2025

Product code: 04593

Page 1 of 11

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

Salicylate Citrate solution for photometric determination of ammonium-N according to DIN 38406:1983,

UFI: 5CQD-U0YC-4001-12YH

**1.2. Relevant identified uses of the substance or mixture and uses advised against****Use of the substance/mixture**

Reagents and laboratory chemicals

Only for laboratory and analysis purposes.

**Uses advised against**

Do not use for private purposes (household).

**1.3. Details of the supplier of the safety data sheet**

Company name: AnalytiChem GmbH

ACD

Street: Stempelstraße 6

Place: D-47167 Duisburg

Telephone: 0203/5194-0

Telefax: 0203/5194-290

E-mail: info@analytichem.de

Telephone: 0203/5194-107/117

Contact person: Abteilung Produktsicherheit

E-mail: produktsicherheit@analytichem.de

Internet: www.analytichem.de

Responsible Department: Abteilung Produktsicherheit

**1.4. Emergency telephone number:**

For Hazardous Materials [or Dangerous Goods] Incidents Spill, Leak, Fire, Exposure, or Accident Call CHEMTREC Day or Night Within USA and Canada: 1-800-424-9300 Outside USA and Canada: +1 703-741-5970 (collect calls accepted)

**Further Information**

This product is a mixture. REACH Registration Number see section 3.

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

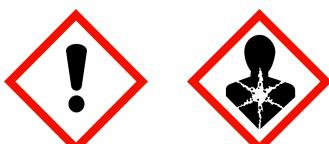
Repr. 2; H361d

Eye Irrit. 2; H319

Full text of hazard statements: see SECTION 16.

**2.2. Label elements****Regulation (EC) No 1272/2008****Hazard components for labelling**

sodium salicylate

**Signal word:** Warning**Pictograms:**

## Safety Data Sheet

according to Regulation (EC) No 1907/2006

### Salicylate Citrate solution for photometric determination of ammonium-N according to DIN 38406:1983,

Revision: 10.03.2025

Product code: 04593

Page 2 of 11

#### Hazard statements

H319 Causes serious eye irritation.  
H361d Suspected of damaging the unborn child.

#### Precautionary statements

P201 Obtain special instructions before use.  
P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing 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.  
P308+P313 IF exposed or concerned: Get medical advice/attention.  
P337+P313 If eye irritation persists: Get medical advice/attention.

#### 2.3. Other hazards

No data available

## SECTION 3: Composition/information on ingredients

### 3.2. Mixtures

#### Chemical characterization

Mixtures in aqueous solution

#### Relevant ingredients

CAS No	Chemical name			Quantity
	EC No	Index No	REACH No	
Classification (Regulation (EC) No 1272/2008)				
54-21-7	sodium salicylate			10 - < 15 %
	200-198-0		01-2119918289-28	
	Repr. 2, Acute Tox. 4, Eye Irrit. 2; H361d H302 H319			

Full text of H and EUH statements: see section 16.

#### Specific Conc. Limits, M-factors and ATE

CAS No	EC No	Chemical name	Quantity
Specific Conc. Limits, M-factors and ATE			
54-21-7	200-198-0	sodium salicylate	10 - < 15 %
dermal: LD50 = > 2000 mg/kg; oral: LD50 = 930 mg/kg			

#### Further Information

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 = 0.1 % (w/w).

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

#### General information

No data available

#### After inhalation

Provide fresh air.  
Call a doctor if you feel unwell.

#### After contact with skin

Wash immediately with: Water  
Take off immediately all contaminated clothing and wash it before reuse.  
In case of skin irritation, consult a physician.

## Safety Data Sheet

according to Regulation (EC) No 1907/2006

### Salicylate Citrate solution for photometric determination of ammonium-N according to DIN 38406:1983,

Revision: 10.03.2025

Product code: 04593

Page 3 of 11

#### After contact with eyes

Rinse immediately carefully and thoroughly with eye-bath or water.  
Remove contact lenses, if present and easy to do. Continue rinsing.  
Consult an ophthalmologist.

#### After ingestion

Rinse mouth immediately and drink plenty of water.  
Call a physician immediately.

#### 4.2. Most important symptoms and effects, both acute and delayed

No data available

#### 4.3. Indication of any immediate medical attention and special treatment needed

No data available

## SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

##### **Suitable extinguishing media**

Co-ordinate fire-fighting measures to the fire surroundings.

##### **Unsuitable extinguishing media**

no restriction

#### 5.2. Special hazards arising from the substance or mixture

Non-combustible liquids  
Hazardous combustion products

#### 5.3. Advice for firefighters

In case of fire: Wear self-contained breathing apparatus.

#### **Additional information**

Use water spray jet to protect personnel and to cool endangered containers.  
Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

## SECTION 6: Accidental release measures

#### 6.1. Personal precautions, protective equipment and emergency procedures

##### **General advice**

Do not breathe vapour/aerosol.

##### **For non-emergency personnel**

Provide adequate ventilation.  
Use personal protection equipment.  
Avoid contact with skin, eyes and clothes.  
Remove persons to safety.  
Emergency procedures  
Consult an expert  
Do not breathe dust/fume/gas/mist/vapours/spray.

##### **For emergency responders**

Precautionary statements For emergency responders : Personal protection equipment: see section 8

#### 6.2. Environmental precautions

Do not allow to enter into surface water or drains.

#### 6.3. Methods and material for containment and cleaning up

##### **For containment**

Cover drains.  
Prevent spread over a wide area (e.g. by containment or oil barriers).

**Salicylate Citrate solution for photometric determination of ammonium-N according to DIN  
38406:1983,**

Revision: 10.03.2025

Product code: 04593

Page 4 of 11

Collect in closed and suitable containers for disposal.

Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents).

**For cleaning up**

Clean contaminated articles and floor according to the environmental legislation.

**Other information**

Provide adequate ventilation.

Do not breathe dust/fume/gas/mist/vapours/spray.

Wear breathing apparatus if exposed to vapours/dusts/aerosols.

**6.4. Reference to other sections**

Safe handling: see section 7

Personal protection equipment: see section 8

Disposal: see section 13

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

Read label before use.

Handle and open container with care.

Keep container tightly closed.

Do not breathe vapour/aerosol.

Avoid contact with skin, eyes and clothes.

**Advice on protection against fire and explosion**

Usual measures for fire prevention.

**Advice on general occupational hygiene**

Wash contaminated clothing prior to re-use.

Do not breathe vapour/aerosol.

Avoid contact with skin, eyes and clothes.

**Further information on handling**

Wash contaminated clothing before reuse.

Wash hands before breaks and after work.

**7.2. Conditions for safe storage, including any incompatibilities****Requirements for storage rooms and vessels**

Keep container tightly closed.

**Hints on joint storage**

TRGS 510

**Further information on storage conditions**

Store in a dry place.

**7.3. Specific end use(s)**

Laboratory chemicals

**SECTION 8: Exposure controls/personal protection****8.1. Control parameters**

**Safety Data Sheet**

according to Regulation (EC) No 1907/2006

**Salicylate Citrate solution for photometric determination of ammonium-N according to DIN  
38406:1983,**

Revision: 10.03.2025

Product code: 04593

Page 5 of 11

**DNEL/DMEL values**

CAS No	Substance			
DNEL type		Exposure route	Effect	Value
54-21-7	sodium salicylate			
Worker DNEL, long-term		inhalation	systemic	1,32 mg/m <sup>3</sup>
Worker DNEL, long-term		dermal	systemic	0,373 mg/kg bw/day
Consumer DNEL, long-term		inhalation	systemic	0,197 mg/m <sup>3</sup>
Consumer DNEL, long-term		oral	systemic	0,133 mg/kg bw/day
Consumer DNEL, long-term		dermal	systemic	0,133 mg/kg bw/day

**PNEC values**

CAS No	Substance		
Environmental compartment			Value
54-21-7	sodium salicylate		
Freshwater			0,0631 mg/l
Freshwater (intermittent releases)			0,631 mg/l
Marine water			0,00631 mg/l
Freshwater sediment			0,364 mg/kg
Marine sediment			0,0364 mg/kg
Soil			0,0358 mg/kg

**8.2. Exposure controls****Appropriate engineering controls**

Technical measures and the application of suitable work processes have priority over personal protection equipment.

**Individual protection measures, such as personal protective equipment****Eye/face protection**

goggles

**Hand protection**

Protective gloves are recommended Company KCL GmbH, D-36124 Eichenzell, email: vertrieb@kcl.de With specification (test according to EN374):

By long-term hand contact

Recommended glove articles: KCL 741 Dermatril® L

Recommended material: NBR (Nitrile rubber) 0,11mm

Wearing time with permanent contact: >480min

By short-term hand contact

Recommended glove articles: KCL 741 Dermatril® L

Recommended material: NBR (Nitrile rubber) 0,11mm

Wearing time with occasional contact (splashes): >480min

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

## Safety Data Sheet

according to Regulation (EC) No 1907/2006

### Salicylate Citrate solution for photometric determination of ammonium-N according to DIN 38406:1983,

Revision: 10.03.2025

Product code: 04593

Page 6 of 11

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](http://www.kcl.de)).

#### Skin protection

Wear suitable protective clothing.

Wash hands before breaks and after work.

#### Respiratory protection

Respiratory protection necessary at: aerosol or mist formation

The entrepreneur has to ensure that maintenance, cleaning and testing of respiratory protective devices are carried out according to the instructions of the producer. These measures have to be properly documented.

#### Thermal hazards

No data available

#### Environmental exposure controls

Do not allow to enter into surface water or drains.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Physical state:	Liquid
Colour:	light brown
Odour:	characteristic
Odour threshold:	No data available
Melting point/freezing point:	No data available
Boiling point or initial boiling point and boiling range:	No data available
Flammability:	No data available
Lower explosion limits:	No data available
Upper explosion limits:	No data available
Flash point:	No data available
Auto-ignition temperature:	No data available
Decomposition temperature:	No data available
pH-Value:	8,0
Viscosity / kinematic:	No data available
Water solubility:	No data available
Solubility in other solvents	
No data available	
Dissolution rate:	No data available
Partition coefficient n-octanol/water:	No data available
Dispersion stability:	No data available
Vapour pressure:	No data available
Vapour pressure:	No data available
Density:	1,1241 g/cm <sup>3</sup>
Bulk density:	No data available
Relative vapour density:	No data available
Particle characteristics:	No data available

### 9.2. Other information

#### Information with regard to physical hazard classes

##### Explosive properties

No data available

##### Sustained combustibility:

No data available

## Safety Data Sheet

according to Regulation (EC) No 1907/2006

### Salicylate Citrate solution for photometric determination of ammonium-N according to DIN 38406:1983,

Revision: 10.03.2025

Product code: 04593

Page 7 of 11

Self-ignition temperature

Solid:

No data available

Gas:

No data available

Oxidizing properties

No data available

#### Other safety characteristics

Evaporation rate:

No data available

Solvent separation test:

No data available

Solvent content:

No data available

Solid content:

No data available

Sublimation point:

No data available

Softening point:

No data available

Pour point:

No data available

No data available:

No data available

Viscosity / dynamic:

No data available

Flow time:

No data available

#### Further Information

No data available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

No data available

### 10.2. Chemical stability

No data available

### 10.3. Possibility of hazardous reactions

No data available

### 10.4. Conditions to avoid

No data available

### 10.5. Incompatible materials

No data available

### 10.6. Hazardous decomposition products

No data available

#### Further information

No data available

## SECTION 11: Toxicological information

### 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

#### Toxicokinetics, metabolism and distribution

There are no data available on the mixture itself.

#### Acute toxicity

Based on available data, the classification criteria are not met.

#### ATEmix calculated

ATE (oral) > 2000 mg/kg; ATE (dermal) > 2000 mg/kg; ATE (inhalation vapour) > 20 mg/l; ATE (inhalation dust/mist) > 5 mg/l

according to Regulation (EC) No 1907/2006

**Salicylate Citrate solution for photometric determination of ammonium-N according to DIN  
38406:1983,**

Revision: 10.03.2025

Product code: 04593

Page 8 of 11

CAS No	Chemical name				
	Exposure route	Dose	Species	Source	Method
54-21-7	sodium salicylate				
	oral	LD50 mg/kg	930	Rat	International Journal of Toxicology, 22(
	dermal	LD50 mg/kg	> 2000	Rat	Study report (2014) OECD Guideline 402

**Irritation and corrosivity**

Serious eye damage/eye irritation: Causes serious eye irritation.

Skin corrosion/irritation: Based on available data, the classification criteria are not met.

**Sensitising effects**

Based on available data, the classification criteria are not met.

**Carcinogenic/mutagenic/toxic effects for reproduction**

Suspected of damaging the unborn child. (sodium salicylate)

Germ cell mutagenicity: Based on available data, the classification criteria are not met.

Carcinogenicity: Based on available data, the classification criteria are not met.

**STOT-single exposure**

Based on available data, the classification criteria are not met.

**STOT-repeated exposure**

Based on available data, the classification criteria are not met.

**Aspiration hazard**

Based on available data, the classification criteria are not met.

**Specific effects in experiment on an animal**

There are no data available on the mixture itself.

**Additional information on tests**

There are no data available on the mixture itself.

**Practical experience**

There are no data available on the mixture itself.

**11.2. Information on other hazards****Other information**

There are no data available on the mixture itself.

**Further information**

There are no data available on the mixture itself.

**SECTION 12: Ecological information****12.1. Toxicity**

Based on available data, the classification criteria are not met.

according to Regulation (EC) No 1907/2006

**Salicylate Citrate solution for photometric determination of ammonium-N according to DIN  
38406:1983,**

Revision: 10.03.2025

Product code: 04593

Page 9 of 11

CAS No	Chemical name					
	Aquatic toxicity	Dose	[h]   [d]	Species	Source	Method
54-21-7	sodium salicylate					
	Acute fish toxicity	LC50 mg/l	> 100 96 h	Danio rerio	REACH Registration Dossier	OECD Guideline 203
	Acute algae toxicity	ErC50 mg/l	48,29 72 h	Chlorella vulgaris	REACH Registration Dossier	OECD Guideline 201
	Fish toxicity	NOEC mg/l	6,867 28 d	Fish	REACH Registration Dossier	other: Modeling database
	Crustacea toxicity	NOEC mg/l	4,126 21 d	Daphnia magna	REACH Registration Dossier	other: Modeling database
	Acute bacteria toxicity	EC50 mg/l ( )	> 1000 3 h	Activated sludge	Concise International Chemical Assessmen	OECD Guideline 209

**12.2. Persistence and degradability**

There are no data available on the mixture itself.

**12.3. Bioaccumulative potential**

There are no data available on the mixture itself.

**Partition coefficient n-octanol/water**

CAS No	Chemical name	Log Pow
54-21-7	sodium salicylate	-1,259

**BCF**

CAS No	Chemical name	BCF	Species	Source
54-21-7	sodium salicylate	3,162	Fish	REACH Registration D

**12.4. Mobility in soil**

There are no data available on the mixture itself.

**12.5. Results of PBT and vPvB assessment**

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

**12.6. Endocrine disrupting properties**

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

**12.7. Other adverse effects**

There are no data available on the mixture itself.

**Further information**

Do not allow to enter into surface water or drains.

**SECTION 13: Disposal considerations**

**13.1. Waste treatment methods**

**Disposal recommendations**

Waste disposal according to directive 2008/98/EC, covering waste and dangerous waste.

Send to a physico-chemical treatment facility under observation of official regulations .

## Safety Data Sheet

according to Regulation (EC) No 1907/2006

### Salicylate Citrate solution for photometric determination of ammonium-N according to DIN 38406:1983,

Revision: 10.03.2025

Product code: 04593

Page 10 of 11

Do not allow to enter into surface water or drains.

#### Contaminated packaging

The allocation of waste identity numbers/waste descriptions must be carried out according to the EEC, specific to the industry and process.

## SECTION 14: Transport information

### Land transport (ADR/RID)

**14.1. UN number or ID number:**

**14.2. UN proper shipping name:**

**14.3. Transport hazard class(es):**

**14.4. Packing group:**

No dangerous good in sense of this transport regulation.

No dangerous good in sense of this transport regulation.

No dangerous good in sense of this transport regulation.

No dangerous good in sense of this transport regulation.

### Inland waterways transport (ADN)

**14.1. UN number or ID number:**

**14.2. UN proper shipping name:**

**14.3. Transport hazard class(es):**

**14.4. Packing group:**

No dangerous good in sense of this transport regulation.

No dangerous good in sense of this transport regulation.

No dangerous good in sense of this transport regulation.

No dangerous good in sense of this transport regulation.

### Marine transport (IMDG)

**14.1. UN number or ID number:**

**14.2. UN proper shipping name:**

**14.3. Transport hazard class(es):**

**14.4. Packing group:**

No dangerous good in sense of this transport regulation.

No dangerous good in sense of this transport regulation.

No dangerous good in sense of this transport regulation.

No dangerous good in sense of this transport regulation.

### Air transport (ICAO-TI/IATA-DGR)

**14.1. UN number or ID number:**

**14.2. UN proper shipping name:**

**14.3. Transport hazard class(es):**

**14.4. Packing group:**

No dangerous good in sense of this transport regulation.

No dangerous good in sense of this transport regulation.

No dangerous good in sense of this transport regulation.

No dangerous good in sense of this transport regulation.

### 14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS:

No

### 14.6. Special precautions for user

No dangerous good in sense of this transport regulation.

### 14.7. Maritime transport in bulk according to IMO instruments

No dangerous good in sense of this transport regulation.

## SECTION 15: Regulatory information

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

#### EU regulatory information

Restrictions on use (REACH, annex XVII):

Entry 3, Entry 75

#### National regulatory information

Water hazard class (D): 1 - slightly hazardous to water

#### Additional information

No data available

## SECTION 16: Other information

#### Changes

This data sheet contains changes from the previous version in section(s): 1,6,8,9,13.

## **Salicylate Citrate solution for photometric determination of ammonium-N according to DIN 38406:1983,**

Revision: 10.03.2025

Product code: 04593

Page 11 of 11

## Abbreviations and acronyms

#### Acute Tox. 4: Acute toxicity, hazard category 4

Eye Irrit. 2: Eye irritation, hazard category 2

## Repr. 2: Reproductive toxicity, hazard category 2

**Classification for mixtures and used evaluation method according to Regulation (EC) No 1272/2008 [CL-P]**

Classification for mixtures and used evaluation method according to Regulation (EC) No 1272/2008 [CLP]	
Classification	Classification procedure
Repr. 2; H361d	Calculation method
Eye Irrit. 2; H319	Calculation method

#### Relevant H and EUH statements (number and full text)

H302 Harmful if swallowed

H319 Causes serious eye irritation

H361d Suspected of damaging the unborn child

## Further Information

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

The information is based on the present level of our knowledge. It does not, however, give assurance of product properties and establishes no contract legal rights.

The receiver of our product is singularly responsible for adhering to existing laws and regulations.

Provide appropriate information, instructions and training to users

(The data for the relevant ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)