

## Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

Reference number: S1367

Issue date: 25/09/2023 Revision date: 25/09/2023 Supersedes version of: 13/06/2018 Version: 3.0

## SECTION 1: Identification of the substance/mixture and of the company/undertaking

### 1.1. Product identifier

Product form	: Substance
Trade name	: Salicylic acid
Chemical name	: salicylic acid
EC Index-No.	: 607-732-00-5
EC-No.	: 200-712-3
CAS-No.	: 69-72-7
REACH registration No.	: 01-2119486984-17
Product code	: S1367
Formula	: C <sub>7</sub> H <sub>6</sub> O <sub>3</sub>
Synonyms	: 2-hydroxybenzoic acid / Acidum Salicylicum
Product group	: Raw material
Other means of identification	: salicylic acid

### 1.2. Relevant identified uses of the substance or mixture and uses advised against

#### 1.2.1. Relevant identified uses

Main use category	: Professional use
Industrial/Professional use spec	: For professional use only. Duchefa Biochemie B.V. products are intended only for "in vitro laboratory" research purposes.

#### 1.2.2. Uses advised against

No additional information available

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

#### Supplier

Duchefa Biochemie B.V.  
A. Hofmanweg 71  
2031 BH Haarlem  
The Netherlands  
T +31(0)23-5319093 - F +31(0)23-5318027  
[info@duchefa.nl](mailto:info@duchefa.nl)

### 1.4. Emergency telephone number

Emergency number	: Supplier contact information: +31(0)23-5319093 (M-F 09:00-17:00) +31(0)6-30008100 (outside office hours)
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Country	Organisation/Company	Address	Emergency number	Comment
	World Health Organization world directory of poison centres	<a href="http://apps.who.int/poisoncentres/">http://apps.who.int/poisoncentres/</a>		Consult website for a local poison centre

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

#### Classification according to Regulation (EC) No. 1272/2008 [CLP]

Acute toxicity (oral), Category 4	H302
Serious eye damage/eye irritation, Category 1	H318
Reproductive toxicity, Category 2	H361d
Full text of H- and EUH-statements: see section 16	

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### Adverse physicochemical, human health and environmental effects

No additional information available

## 2.2. Label elements

### Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP)



GHS05

GHS07

GHS08

Signal word (CLP)

: Danger

Hazard statements (CLP)

: H302 - Harmful if swallowed.

H318 - Causes serious eye damage.

H361d - Suspected of damaging the unborn child.

Precautionary statements (CLP)

: P201 - Obtain special instructions before use.

P264 - Wash hands thoroughly after handling.

P280 - Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.

P305+P351+P338+P310 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Immediately call a POISON CENTER or doctor.

P308+P313 - IF exposed or concerned: Get medical advice/attention.

## 2.3. Other hazards

No additional information available

## SECTION 3: Composition/information on ingredients

### 3.1. Substances

Substance type

: Mono-constituent

Name	Product identifier	%
Salicylic acid	CAS-No.: 69-72-7 EC-No.: 200-712-3 EC Index-No.: 607-732-00-5 REACH-no: 01-2119486984-17	≥ 99

### 3.2. Mixtures

Not applicable

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

First-aid measures after inhalation

: Move to fresh air. If you feel unwell, seek medical advice.

First-aid measures after skin contact

: Wash skin with plenty of water and soap. Seek medical attention if ill effect or irritation develops.

First-aid measures after eye contact

: Rinse with plenty of water. Obtain medical attention if pain, blinking or redness persists.

First-aid measures after ingestion

: If swallowed, seek medical advice immediately and show this container or label.

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

Symptoms/effects

: Vomiting. Nausea. Gastrointestinal complaints.

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

No additional information available

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

Suitable extinguishing media : Alcohol resistant foam. Dry chemical powder. Carbon dioxide (CO<sub>2</sub>). Water spray.

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

Fire hazard : Combustible.  
Hazardous decomposition products in case of fire : When heated to decomposition, emits toxic fumes: - CO<sub>x</sub>.

### 5.3. Advice for firefighters

Firefighting instructions : Avoid (reject) fire-fighting water to enter environment.  
Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection.

## SECTION 6: Accidental release measures

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

#### 6.1.1. For non-emergency personnel

Protective equipment : Wear suitable protective clothing.  
Measures in case of dust release : Use good housekeeping practices to avoid rendering dust airborne.

#### 6.1.2. For emergency responders

No additional information available

### 6.2. Environmental precautions

Prevent entry to sewers and public waters.

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

Methods for cleaning up : Sweep up dry powder and dispose properly.

### 6.4. Reference to other sections

No additional information available

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Precautions for safe handling : Handle in accordance with good industrial hygiene and safety procedures. Protect from moisture. Handle under inert gas.

### 7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Store in dry, well-ventilated area. Store at room temperature. Keep container tightly closed and dry. Protect from light.  
Incompatible products : Oxidizing agent.  
Storage temperature : 15 – 25 °C

### 7.3. Specific end use(s)

For professional use only. Duchefa Biochemie B.V. products are intended only for "in vitro laboratory" research purposes.

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## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### 8.1.1 National occupational exposure and biological limit values

No additional information available

#### 8.1.2. Recommended monitoring procedures

No additional information available

#### 8.1.3. Air contaminants formed

No additional information available

#### 8.1.4. DNEL and PNEC

<b>Salicylic acid (69-72-7)</b>	
<b>DNEL/DMEL (Workers)</b>	
Long-term - systemic effects, dermal	2,3 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	5 mg/m <sup>3</sup>
Long-term - local effects, inhalation	5 mg/m <sup>3</sup>
<b>DNEL/DMEL (General population)</b>	
Acute - systemic effects, oral	4 mg/kg bodyweight/day
Long-term - systemic effects, oral	1 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	4 mg/m <sup>3</sup>
Long-term - systemic effects, dermal	1 mg/kg bodyweight/day
<b>PNEC (Water)</b>	
PNEC aqua (freshwater)	0,2 mg/l
PNEC aqua (marine water)	0,02 mg/l
PNEC aqua (intermittent, freshwater)	1 mg/l
<b>PNEC (Sediment)</b>	
PNEC sediment (freshwater)	1,42 mg/kg dwt
PNEC sediment (marine water)	0,142 mg/kg dwt
<b>PNEC (Soil)</b>	
PNEC soil	0,166 mg/kg dwt
<b>PNEC (STP)</b>	
PNEC sewage treatment plant	162 mg/l

#### 8.1.5. Control banding

No additional information available

### 8.2. Exposure controls

#### 8.2.1. Appropriate engineering controls

No additional information available

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## 8.2.2. Personal protection equipment

## Personal protective equipment symbol(s):



## 8.2.2.1. Eye and face protection

Eye protection			
Type	Field of application	Characteristics	Standard
Safety goggles	Dust		EN 166

## 8.2.2.2. Skin protection

## Skin and body protection:

Long sleeved protective clothing

Hand protection					
Type	Material	Permeation	Thickness (mm)	Penetration	Standard
Gloves	Nitrile rubber (NBR)	6 (> 480 minutes)	0,11		EN ISO 374

## 8.2.2.3. Respiratory protection

Respiratory protection			
Device	Filter type	Condition	Standard
Dust mask	Type P3	Dust protection	EN 143

## 8.2.2.4. Thermal hazards

No additional information available

## 8.2.3. Environmental exposure controls

No additional information available

## SECTION 9: Physical and chemical properties

## 9.1. Information on basic physical and chemical properties

Physical state	: Solid
Colour	: White to off-white.
Appearance	: Crystalline powder.
Molecular mass	: 138,1 g/mol
Odour	: Odourless.
Odour threshold	: Not available
Melting point	: 157 – 160 °C
Freezing point	: Not available
Boiling point	: 256 °C
Flammability	: Not flammable
Explosive limits	: Not applicable
Lower explosion limit	: Not applicable
Upper explosion limit	: Not applicable
Flash point	: 157 °C
Auto-ignition temperature	: Not applicable
Decomposition temperature	: 230 °C
pH	: 2,4
pH solution concentration	: 2 %

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Viscosity, kinematic	: Not applicable
Solubility	: Poorly soluble in water. Water: 2 g/l (20 °C)
Partition coefficient n-octanol/water (Log Kow)	: Not available
Partition coefficient n-octanol/water (Log Pow)	: 2,26
Vapour pressure	: 0,000208 hPa Temp.: 25 °C
Vapour pressure at 50°C	: Not available
Density	: 1,44 g/cm <sup>3</sup>
Relative density	: 1,44 Type: 'relative density' Temp.: 20 °C
Relative vapour density at 20°C	: Not applicable
Particle size	: Not available

### 9.2. Other information

#### 9.2.1. Information with regard to physical hazard classes

No additional information available

#### 9.2.2. Other safety characteristics

Relative evaporation rate (butylacetate=1)	: <
Bulk density	: 0,3 – 0,5 kg/m <sup>3</sup>

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

Stable under normal conditions.

### 10.2. Chemical stability

Stable under normal conditions of storage, handling and use.

### 10.3. Possibility of hazardous reactions

No additional information available

### 10.4. Conditions to avoid

Heat.

### 10.5. Incompatible materials

Strong oxidizers. Strong bases. Iron.

### 10.6. Hazardous decomposition products

Thermal decomposition generates : - COx.

## SECTION 11: Toxicological information

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

Acute toxicity (oral)	: Harmful if swallowed.
Acute toxicity (dermal)	: Not classified
Acute toxicity (inhalation)	: Not classified

Salicylic acid (69-72-7)	
LD50 oral rat	891 mg/kg
LD50 oral	480 mg/kg (mouse)
LD50 dermal rat	> 2 g/kg

Skin corrosion/irritation	: Not classified pH: 2,4
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Serious eye damage/irritation	: Causes serious eye damage. pH: 2,4
Respiratory or skin sensitisation	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Suspected of damaging the unborn child.
STOT-single exposure	: Not classified
STOT-repeated exposure	: Not classified

### Salicylic acid (69-72-7)

NOAEL (oral, rat, 90 days)	50 mg/kg bodyweight Animal: rat
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Aspiration hazard : Not classified

## 11.2. Information on other hazards

### 11.2.1. Endocrine disrupting properties

No additional information available

### 11.2.2. Other information

Other information : See actual entry in RTECS for complete information: VO0525000

## SECTION 12: Ecological information

### 12.1. Toxicity

Hazardous to the aquatic environment, short-term (acute) : Not classified

Hazardous to the aquatic environment, long-term (chronic) : Not classified

### Salicylic acid (69-72-7)

LC50 - Fish [1]	1370 mg/l Test organisms (species): Pimephales promelas
EC50 - Crustacea [1]	180 mg/l
EC50 72h - Algae [1]	60 mg/l
NOEC (chronic)	10 mg/l Test organisms (species): Daphnia magna Duration: '21 d'

### 12.2. Persistence and degradability

### Salicylic acid (69-72-7)

Biochemical oxygen demand (BOD)	0,95 g O <sub>2</sub> /g substance
Chemical oxygen demand (COD)	100
ThOD	1,623 g O <sub>2</sub> /g substance

### 12.3. Bioaccumulative potential

### Salicylic acid (69-72-7)

Partition coefficient n-octanol/water (Log Pow)	2,26
Bioaccumulative potential	Bioaccumulation unlikely.

### 12.4. Mobility in soil

No additional information available

### 12.5. Results of PBT and vPvB assessment

No additional information available

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**12.6. Endocrine disrupting properties**

No additional information available

**12.7. Other adverse effects**

Additional information : Prevent entry to sewers and public waters. Avoid release to the environment

**SECTION 13: Disposal considerations****13.1. Waste treatment methods**

Waste treatment methods : Dispose in a safe manner in accordance with local/national regulations.

HP Code : HP5 - "Specific Target Organ Toxicity (STOT)/Aspiration Toxicity:" waste which can cause specific target organ toxicity either from a single or repeated exposure, or which cause acute toxic effects following aspiration.

HP6 - "Acute Toxicity:" waste which can cause acute toxic effects following oral or dermal administration, or inhalation exposure.

HP4 - "Irritant – skin irritation and eye damage:" waste which on application can cause skin irritation or damage to the eye.

HP10 - "Toxic for reproduction:" waste which has adverse effects on sexual function and fertility in adult males and females, as well as developmental toxicity in the offspring.

HP13 - "Sensitising:" waste which contains one or more substances known to cause sensitising effects to the skin or the respiratory organs.

**SECTION 14: Transport information**

In accordance with ADR / IMDG / IATA

ADR	IMDG	IATA
<b>14.1. UN number or ID number</b>		
Not regulated	Not regulated	Not regulated
<b>14.2. UN proper shipping name</b>		
Not regulated	Not regulated	Not regulated
<b>14.3. Transport hazard class(es)</b>		
Not regulated	Not regulated	Not regulated
<b>14.4. Packing group</b>		
Not regulated	Not regulated	Not regulated
<b>14.5. Environmental hazards</b>		
Not regulated	Not regulated	Not regulated
No supplementary information available		

**14.6. Special precautions for user****Overland transport**

Not regulated

**Transport by sea**

Not regulated

**Air transport**

Not regulated

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

Not applicable

## SECTION 15: Regulatory information

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

#### 15.1.1. EU-Regulations

##### REACH Annex XVII (Restriction List)

Not listed on REACH Annex XVII

##### REACH Annex XIV (Authorisation List)

Not listed on REACH Annex XIV (Authorisation List)

##### REACH Candidate List (SVHC)

Not listed on the REACH Candidate List

##### PIC Regulation (Prior Informed Consent)

Not listed on the PIC list (Regulation EU 649/2012)

##### POP Regulation (Persistent Organic Pollutants)

Not listed on the POP list (Regulation EU 2019/1021)

##### Ozone Regulation (1005/2009)

Not listed on the Ozone Depletion list (Regulation EU 1005/2009)

##### Explosives Precursors Regulation (2019/1148)

Contains no substance(s) listed on the Explosives Precursors list (Regulation EU 2019/1148 on the marketing and use of explosives precursors)

##### Drug Precursors Regulation (273/2004)

Contains no substance(s) listed on the Drug Precursors list (Regulation EC 273/2004 on the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances)

#### 15.1.2. National regulations

Ensure all national/local regulations are observed.

##### Germany

Water hazard class (WGK) : WGK 1, Slightly hazardous to water (Classification according to VwVwS, Annex 1 or 2).

Hazardous Incident Ordinance (12. BImSchV) : Is not subject of the Hazardous Incident Ordinance (12. BImSchV)

##### Netherlands

SZW-lijst van kankerverwekkende stoffen : The substance is not listed

SZW-lijst van mutagene stoffen : The substance is not listed

SZW-lijst van reprotoxische stoffen – Borstvoeding : The substance is not listed

SZW-lijst van reprotoxische stoffen – Vruchtbaarheid : The substance is not listed

SZW-lijst van reprotoxische stoffen – Ontwikkeling : Salicylic acid is listed

SZW-lijst van reprotoxische stoffen – Ontwikkeling : Salicylic acid is listed

SZW-lijst van reprotoxische stoffen – Ontwikkeling : Salicylic acid is listed

SZW-lijst van reprotoxische stoffen – Ontwikkeling : Salicylic acid is listed

##### Denmark

Danish National Regulations : Young people below the age of 18 years are not allowed to use the product  
Pregnant/breastfeeding women working with the product must not be in direct contact with the product

### 15.2. Chemical safety assessment

No additional information available

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**SECTION 16: Other information**

Indication of changes			
Section	Changed item	Change	Comments
	Substance type	Added	
	Concentration of the solution used for the pH measurement	Added	
	Flammability	Added	
1.1	Other means of identification	Added	
1.1	EC Index-No.	Added	
1.1	REACH registration No.	Added	
1.1	Formula	Modified	
2.1	Classification according to Regulation (EC) No. 1272/2008 [CLP]	Modified	
2.2	Signal word (CLP)	Modified	
2.2	Hazard statements (CLP)	Modified	
2.2	Hazard pictograms (CLP)	Modified	
2.2	Precautionary statements (CLP)	Modified	
3	Composition/information on ingredients	Modified	
4.1	First-aid measures after ingestion	Modified	
4.2	Symptoms/effects	Added	
5.2	Fire hazard	Added	
7.1	Precautions for safe handling	Modified	
7.2	Incompatible products	Added	
7.2	Storage temperature	Added	
7.2	Storage conditions	Modified	
8.1	PNEC soil	Added	
8.1	PNEC sewage treatment plant	Added	
8.1	PNEC sediment (marine water)	Added	
8.1	PNEC sediment (freshwater)	Added	
8.1	PNEC aqua (marine water)	Added	
8.1	PNEC aqua (intermittent, freshwater)	Added	
8.1	PNEC aqua (freshwater)	Added	
8.1	Long-term - systemic effects, oral	Added	
8.1	Long-term - systemic effects, inhalation	Added	
8.1	Long-term - systemic effects, inhalation	Added	
8.1	Long-term - systemic effects, dermal	Added	
8.1	Long-term - systemic effects, dermal	Added	
8.1	Long-term - local effects, inhalation	Added	
8.1	Acute - systemic effects, oral	Added	

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Indication of changes			
Section	Changed item	Change	Comments
9.1	Vapour pressure	Added	
9.1	Relative evaporation rate (butylacetate=1)	Added	
9.1	Relative density	Added	
9.1	pH	Added	
9.1	Flash point	Added	
9.1	Decomposition temperature	Added	
9.1	Solubility in water	Modified	
9.1	Boiling point	Modified	
9.1	Melting point	Modified	
11.1	NOAEL (oral, rat, 90 days)	Added	
11.1	ATE CLP (oral)	Added	
12.1	NOEC (chronic)	Added	
12.1	LC50 fish 1	Added	

Abbreviations and acronyms:	
ATE	Acute Toxicity Estimate
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
BCF	Bioconcentration factor
CLP	Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008
DPD	Dangerous Preparations Directive 1999/45/EC
DSD	Dangerous Substances Directive 67/548/EEC
IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods
LC50	Median lethal concentration
LD50	Median lethal dose
LOAEL	Lowest Observed Adverse Effect Level
NOAEC	No-Observed Adverse Effect Concentration
PBT	Persistent Bioaccumulative Toxic
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006
SDS	Safety Data Sheet

Data sources : Manufacturer. ECHA (European Chemicals Agency).

Full text of H- and EUH-statements:	
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Eye Dam. 1	Serious eye damage/eye irritation, Category 1
H302	Harmful if swallowed.

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**Full text of H- and EUH-statements:**

H318	Causes serious eye damage.
H361d	Suspected of damaging the unborn child.
Repr. 2	Reproductive toxicity, Category 2

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This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.