

# SAFETY DATA SHEET

Creation Date 18-Sep-2009

Revision Date 18-Dec-2025

Revision Number 5

This safety data sheet was created pursuant to the requirements of: US OSHA Hazard Communication Standard 2024 (29 CFR 1910.1200)

## 1. Identification

|                      |  |
|----------------------|--|
| Product Name         | Saccharin  |
| Cat No. :            | AC149000000; AC149000010; AC149000025; AC149001000;<br>AC149005000 |
| CAS No               | 81-07-2  |
| Synonyms             | Saccharin insoluble; o-Benzoic sulfimide                           |
| Recommended Use      | Laboratory chemicals.  |
| Uses advised against | Food, drug, pesticide or biocidal product use.                     |

## Details of the supplier of the safety data sheet

|                           |                     |
|---------------------------|---------------------|
| <b>Company</b>            |                     |
| Fisher Scientific Company | Acros Organics      |
| One Reagent Lane          | One Reagent Lane    |
| Fair Lawn, NJ 07410       | Fair Lawn, NJ 07410 |
| Tel: (201) 796-7100       |                     |

## **Emergency Telephone Number**

For information **US** call: 001-800-227-6701 / **Europe** call: +32 14 57 52 11  
Emergency Number **US**:001-201-796-7100 / **Europe**: +32 14 57 52 99

CHEMTRAC Tel. No. **US**:001-800-424-9300 / **Europe**:001-703-527-3887

## 2. Hazard(s) identification

### Classification

Classification according to [US] OSHA (29 CFR 1910.1200, 2024)

This product is not considered hazardous by the US OSHA Hazard Communication Standard 2024 (29 CFR 1910.1200).

### Label Elements

None required

### Hazards not otherwise classified (HNOC)

None identified

### Hazards classified under paragraph (d)(1)(ii) of 1910.1200

No information available

### 3. Composition/information on Ingredients

| Component | CAS No  | Weight % |
|-----------|---------|----------|
| Saccharin | 81-07-2 | <=100    |

### 4. First-aid measures

|  |   |
|--|---|
| <b>Eye Contact</b>                         | Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention. |
| <b>Skin Contact</b>                        | Wash off immediately with plenty of water for at least 15 minutes. Get medical attention.                       |
| <b>Inhalation</b>                          | Remove to fresh air. If breathing is difficult, give oxygen. Get medical attention.                             |
| <b>Ingestion</b>                           | Do NOT induce vomiting. Get medical attention.  |
| <b>Most important symptoms and effects</b> | No information available.   |
| <b>Notes to Physician</b>                  | Treat symptomatically   |

### 5. Fire-fighting measures

**Suitable Extinguishing Media** Water spray. Carbon dioxide (CO<sub>2</sub>). Dry chemical. Chemical foam.

**Unsuitable Extinguishing Media** No information available

**Flash Point** No information available  
**Method -** No information available

**Autoignition Temperature** No information available  
**Explosion Limits**

**Upper** No data available  
**Lower** No data available

**Sensitivity to Mechanical Impact** No information available  
**Sensitivity to Static Discharge** No information available

#### Specific Hazards Arising from the Chemical

Thermal decomposition can lead to release of irritating gases and vapors. Keep product and empty container away from heat and sources of ignition.

#### Hazardous Combustion Products

Nitrogen oxides (NO<sub>x</sub>). Carbon monoxide (CO). Carbon dioxide (CO<sub>2</sub>). Sulfur oxides.

#### Protective Equipment and Precautions for Firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

#### NFPA

| Health | Flammability | Instability | Physical hazards |
|--------|--------------|-------------|------------------|
| 0      | 0            | 0           | N/A              |

### 6. Accidental release measures

**Personal Precautions** Use personal protective equipment as required. Ensure adequate ventilation. Avoid dust formation.

**Environmental Precautions** See Section 12 for additional Ecological Information.

**Methods for Containment and Clean Up** Sweep up and shovel into suitable containers for disposal. Do not let this chemical enter the environment.

## 7. Handling and Storage

**Handling** Handle product only in closed system or provide appropriate exhaust ventilation. Wear personal protective equipment/face protection. Avoid dust formation. Avoid contact with skin and eyes. Do not breathe dust. Do not ingest. If swallowed then seek immediate medical assistance.

**Storage.** Keep in a dry, cool and well-ventilated place. Keep container tightly closed. Incompatible Materials. Strong oxidizing agents.

## 8. Exposure controls / personal protection

**Exposure Guidelines** This product does not contain any hazardous materials with occupational exposure limitsestablished by the region specific regulatory bodies.

**Engineering Measures** None under normal use conditions.

### Personal Protective Equipment

**Eye/face Protection** Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

**Skin and body protection** Wear appropriate protective gloves and clothing to prevent skin exposure.

**Respiratory Protection** No protective equipment is needed under normal use conditions.

**Recommended Filter type:** Particle filter.

**Hygiene Measures** Handle in accordance with good industrial hygiene and safety practice.

## 9. Physical and chemical properties

### Appearance

| Physical State            | Solid                         | <u>Remarks</u>                           | <u>Method</u> |
|---------------------------|-------------------------------|--|---------------|
| Color                     | White                         |  |               |
| Odor                      | Odorless                      | <b>Method</b> - No information available | Solid         |
| Odor Threshold            | No information available      |  |               |
| Property                  | Values                        | <u>Remarks</u>                           | <u>Method</u> |
| Melting Point/Range       | 226 - 230 °C / 438.8 - 446 °F |  |               |
| Softening Point           | No data available             | <b>Method</b> - No information available | Solid         |
| Boiling Point/Range       | No information available      |  |               |
| Flash Point               | No information available      | <b>Method</b> - No information available | Solid         |
| Flammability (liquid)     | Not applicable                |  |               |
| Flammability (solid,gas)  | No information available      | <b>Method</b> - No information available | Solid         |
| Explosion Limits          | No data available             |  |               |
| Autoignition Temperature  | No data available             | <b>Method</b> - No information available | Solid         |
| Decomposition Temperature | No data available             |  |               |
| pH                        | ~ 2.0                         | <b>Method</b> - No information available | Solid         |
| Viscosity                 | Not applicable                |  |               |
| Water Solubility          | 3.3 g/l (20°C)                | <b>Method</b> - No information available | Solid         |

**Solubility in other solvents** No information available

**Partition Coefficient (n-octanol/water)**

**Component** **log Pow**

Saccharin -0.024

**Vapor Pressure** No data available

**Density / Specific Gravity** 0.828

**Bulk Density** No data available

**Vapor Density** Not applicable

**Particle characteristics** No data available

Solid

#### Other Information

**Molecular Formula** C7 H5 N O3 S

**Molecular Weight** 183.18

**Evaporation Rate** Not applicable - Solid

## 10. Stability and reactivity

**Reactive Hazard** None known, based on information available

**Stability** Stable under normal conditions.

**Conditions to Avoid** Incompatible products.

**Incompatible Materials** Strong oxidizing agents

**Hazardous Decomposition Products** Nitrogen oxides (NO<sub>x</sub>), Carbon monoxide (CO), Carbon dioxide (CO<sub>2</sub>), Sulfur oxides

**Hazardous Polymerization** Hazardous polymerization does not occur.

**Hazardous Reactions** None under normal processing.

## 11. Toxicological information

#### Information on expected route of exposure

**Inhalation** May be harmful if inhaled. May cause irritation of respiratory tract.

**Ingestion** May be harmful if swallowed. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. No known effect based on information supplied.

**Eyes** Not an expected route of exposure.

**Skin** No known effect based on information supplied.

#### Toxicology data for the components

| Component | LD50 Oral                  | LD50 Dermal | LC50 Inhalation |
|-----------|----------------------------|-------------|-----------------|
| Saccharin | LD50 = 14200 mg/kg ( Rat ) | -           | -               |

**Toxicologically Synergistic Products** No information available

**(b) skin corrosion/irritation;** No data available

**(c) serious eye damage/irritation;** No data available

**(d) respiratory or skin sensitization;**

**Respiratory** No data available  
**Skin** No data available

(e) germ cell mutagenicity; No data available  
Mutagenic effects have occurred in experimental animals

(f) carcinogenicity; Possible cancer hazard. May cause cancer based on animal data

| Component | CAS No  | IARC       | NTP        | ACGIH      | OSHA       | Mexico     |
|-----------|---------|------------|------------|------------|------------|------------|
| Saccharin | 81-07-2 | Not listed |

(g) reproductive toxicity; No data available

**Reproductive Effects** Experiments have shown reproductive toxicity effects on laboratory animals.

(h) STOT-single exposure; No data available

(i) STOT-repeated exposure; No data available

**Target Organs** No information available.

(j) aspiration hazard; Not applicable  
Solid

**Other Adverse Effects** The toxicological properties have not been fully investigated. See actual entry in RTECS for complete information

**Symptoms / effects, both acute and delayed** No information available.

**Other Adverse Effects** The toxicological properties have not been fully investigated. See actual entry in RTECS for complete information.

**Endocrine Disrupting Properties** This product does not contain any known or suspected endocrine disruptors.

## 12. Ecological information

### Ecotoxicity

Do not empty into drains.

| Component | Freshwater Algae | Freshwater Fish                                  | Microtox   | Water Flea |
|-----------|------------------|--|------------|------------|
| Saccharin | Not listed       | LC50: = 18300 mg/L, 96h<br>(Pimephales promelas) | Not listed | Not listed |

**Persistence and Degradability** Soluble in water Persistence is unlikely based on information available.

**Bioaccumulation/ Accumulation** No information available.

**Mobility** Will likely be mobile in the environment due to its water solubility.

| Component | log Pow |
|-----------|---------|
| Saccharin | -0.024  |

## 13. Disposal considerations

**Waste Disposal Methods** Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and

national hazardous waste regulations to ensure complete and accurate classification.

#### 14. Transport information

|                 |               |
|-----------------|---------------|
| <u>DOT</u>      | Not regulated |
| <u>TDG</u>      | Not regulated |
| <u>IATA</u>     | Not regulated |
| <u>IMDG/IMO</u> | Not regulated |

#### 15. Regulatory Information

##### United States of America Inventory

| Component | CAS No  | TSCA | TSCA Inventory notification - Active-Inactive | TSCA - EPA Regulatory Flags |
|-----------|---------|------|---|-----------------------------|
| Saccharin | 81-07-2 | X    | ACTIVE  | -                           |

##### Legend:

**TSCA** US EPA (TSCA) - Toxic Substances Control Act, (40 CFR Part 710)

X - Listed

'-' - Not Listed

**TSCA - Per 40 CFR 751, Regulation of Certain Chemical Substances & Mixtures, Under TSCA Section 6(h) (PBT)** Not applicable

**TSCA 12(b) - Notices of Export** Not applicable

##### International Inventories

Canada (DSL/NDSL), Europe (EINECS/ELINCS/NLP), Philippines (PICCS), Japan (ENCS), Japan (ISHL), Australia (AICS), China (IECSC), Korea (KECL).

| Component | CAS No  | DSL | NDSL | EINECS    | PICCS | ENCS | ISHL | AICS | IECSC | KECL     |
|-----------|---------|-----|------|-----------|-------|------|------|------|-------|----------|
| Saccharin | 81-07-2 | X   | -    | 201-321-0 | X     | X    | X    | X    | X     | KE-02681 |

KECL - NIER number or KE number (<http://ncis.nier.go.kr/en/main.do>)

##### U.S. Federal Regulations

##### **SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

| Component | CAS No  | Weight % | SARA 313 - Threshold Values % | SARA 313 - Reporting thresholds |
|-----------|---------|----------|-------------------------------|---------------------------------|
| Saccharin | 81-07-2 | <=100    | 1.0 %                         | -                               |

##### **SARA 311/312 Hazard Categories**

Should this product meet EPCRA 311/312 Tier reporting criteria at 40 CFR 370, refer to Section 2 of this SDS for appropriate classifications.

**CWA (Clean Water Act)** Not applicable

**Clean Air Act** Not applicable

**OSHA - Occupational Safety and Health Administration** Not applicable

##### **CERCLA**

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and

Reauthorization Act (SARA) (40 CFR 355).

**California Proposition 65**

This product does not contain any Proposition 65 chemicals.

**U.S. State Right-to-Know  
Regulations**

| Component | Massachusetts | New Jersey | Pennsylvania | Illinois | Rhode Island |
|-----------|---------------|------------|--------------|----------|--------------|
| Saccharin | X             | X          | X            | -        | -            |

**U.S. Department of Transportation**

Reportable Quantity (RQ): N  
DOT Marine Pollutant N  
DOT Severe Marine Pollutant N

**U.S. Department of Homeland  
Security**

This product does not contain any DHS chemicals.

**Other International Regulations**

**Mexico - Grade** No information available

**Authorisation/Restrictions according to EU REACH** Not applicable

| Component | CAS No  | REACH (1907/2006) - Annex XIV - Substances Subject to Authorization | REACH (1907/2006) - Annex XVII - Restrictions on Certain Dangerous Substances | REACH Regulation (EC 1907/2006) article 59 - Candidate List of Substances of Very High Concern (SVHC) |
|-----------|---------|---|---|---|
| Saccharin | 81-07-2 | -   | -   | -   |

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

| Component | CAS No  | OECD HPV       | Persistent Organic Pollutant | Ozone Depletion Potential | Restriction of Hazardous Substances (RoHS) |
|-----------|---------|----------------|------------------------------|---------------------------|--|
| Saccharin | 81-07-2 | Not applicable | Not applicable               | Not applicable            | Not applicable                             |

**Contains component(s) that meet a 'definition' of per & poly fluoroalkyl substance (PFAS)?**

Not applicable

**Other International Regulations**

| Component | CAS No  | Seveso III Directive (2012/18/EC) - Qualifying Quantities for Major Accident Notification | Seveso III Directive (2012/18/EC) - Qualifying Quantities for Safety Report Requirements | Rotterdam Convention (PIC) | Basel Convention (Hazardous Waste) |
|-----------|---------|---|--|----------------------------|------------------------------------|
| Saccharin | 81-07-2 | Not applicable  | Not applicable   | Not applicable             | Not applicable                     |

**16. Other Information**

**Prepared By**

Product stewardship (Regulatory Affairs)  
Thermo Fisher Scientific  
email - begel.sdsdesk@thermofisher.com

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|                         |   |
|-------------------------|---|
| <b>Creation Date</b>    | 18-Sep-2009   |
| <b>Revision Date</b>    | 18-Dec-2025   |
| <b>Print Date</b>       | 18-Dec-2025   |
| <b>Revision Summary</b> | Updated to the U.S. Department of Labor's Occupational Safety and Health Administration (OSHA) which published its Final Rule in the Federal Register revising the Hazard Communication Standard (HCS/HazCom), 29 CFR 1910.1200 (2024) (HCS §1910.1200, 2024), May 20, 2024, effective July 19, 2024. |

**Disclaimer**

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text

**End of SDS**