



Section 1. Product and Company Identification

Product Name Sodium Saccharin
CAS Number Mixture

Parchem - fine & specialty chemicals

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EMERGENCY RESPONSE NUMBER
CHEMTEL

Toll Free US & Canada: 1 (800) 255-3924

All other Origins: 1 (813) 248-0585

Collect Calls Accepted

Section 2. Hazards Identification

GHS Classification of the Substance/Mixture: Not classified

GHS Label Elements, including Precautionary Statements

Pictogram and Symbol: Not applicable

Signal Word: Not applicable

Hazard Statements: Not applicable

Precautionary Statements

Precaution: Not applicable

Treatment: Not applicable

Storage: Not applicable

Disposal: Not applicable

NFPA Rating

Health: 0

Flammability: -

Reactivity: -

Section 3. Composition / Information on Ingredients

Common Name Sodium Saccharin
Synonym(s) 1,2-Benzisothiazolin-3-one, 1,1-dioxide, sodium deriv., dihydrate
CAS Number Mixture

Section 4. First Aid Measures

Eye Contact: Remove lenses if wearing contact lenses. Flush eyes immediately with large quantities of running water for at least 15 minutes, occasionally lifting the upper and lower eyelids. If symptoms develop and persist, get medical attention.



Skin Contact: In case of contact, immediately wash with soap and water for at least 15 minutes. Wash and dry contaminated clothing and shoes thoroughly, before re-use.

Inhalation: Move victim to place with fresh air to rest in a well-ventilated area. Give artificial respiration if victim is not breathing. If the chemical material is inhaled, get medical attention immediately

Ingestion: Get medical attention if irritation and symptoms persist. Drink plenty of water. Get medical attention in case of necessity. If victim is unconscious, turn the victim on his/her left side.

Acute and Delayed Symptoms/Effects: Not available

Indication of Immediate Medical Attention and Notes for Physician: Move victim to fresh air, give artificial respiration if victim is not breathing and administer oxygen if breathing is difficult. Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves.

Section 5. Firefighting Measures

Suitable (and Unsuitable) Extinguishing Agent

Suitable Extinguishing Agent: Dry chemical, CO₂, water spray

Unsuitable Extinguishing Agent: Not available

In Case of Major Fire and Large Quantities: Move containers from fire area if you can do it without risk. Do not inhale the substance itself or the burning artifact.

Thermal Decomposition Products: Sulfur oxide, nitrogen oxide, toxic fume.

Fires and an Explosion: Explosion is not dangerous.

Special Protective Equipment and Precautions for Firefighters: Wear positive pressure self-contained breathing apparatus (SCBA).

Section 6. Accidental Release Measures

Personal Precautions, Protective Equipment, and Emergency Procedures: Ventilate spill or leak area. Stop leak if you can do it without risk. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing.

Environmental Precautions and Protective Procedures

Atmosphere: Provide local exhaust ventilation system.

Land: Dike far ahead of liquid spill for later disposal.

Underwater: Clean up residual material and collect in a suitable disposal container.

The Methods of Purification and Removal

Small Spill: Absorb or cover with dry earth, sand, or other non-combustible material.

Large Spill: Dike far ahead of liquid spill for later disposal.

Section 7. Handling and Storage

Precautions for Safe Handling: Use local exhaust ventilation. Wash thoroughly after handling. Do not breathe dust and fume. Minimize generating dusty conditions.



Conditions for Safe Storage: Store the container tightly closed and in a dry, cool, and well-ventilated place. Keep away from incompatible materials.

Section 8. Exposure Controls / Personal Protection

Occupational Exposure limits

Korean Occupation of Safety and Health Regulation: Not listed

ACGIH: Not listed

OSHA: Not listed

NIOSH: Not listed

Biological exposure index: Not listed

EU Regulation: Not listed

Appropriate Engineering Controls: Check legal suitability of exposure level. Provide local exhaust ventilation system or other engineering controls to keep the airborne concentrations of vapors below their respective threshold limit value.

Personal Protective Equipment

Respiratory Protection: Use a NIOSH or European Standard EN 149 approved respirator when necessary. Respiratory protection for Dust/mist/fume.

Eye/Face Protection: Wear NIOSH approved glasses.

Hand Protection: Wear appropriate gloves to prevent skin exposure.

Body Protection: Wear appropriate protective chemical-resistant clothing.

Section 9. Physical and Chemical Properties

Appearance: Powder (white)

Odor: Odorless

Odor Threshold: Not available

pH: Natural (at 100g/l, 20°C)

Melting Point/Freezing Point: 229 - 230°C

Initial Boiling Point and Boiling Range: Not available

Flash Point: Not available

Evaporation Rate: Not available

Flammability (solid, gas): Not available

Upper/Lower Flammability or Explosive Limits: Not applicable

Vapor pressure: Not available

Vapor Density: Not available

Solubility (ies): 660 g/l (at 20°C)

Specific Gravity: Not available

Partition Coefficient: n-octanol/water: log Kow < 0.3 (measured)



Auto Ignition Temperature: Not available
Decomposition Temperature: Not available
Viscosity: Not available
Molecular Weight: 241.2 g/mol

Section 10. Stability and Reactivity

Stability and Reactivity

Chemical Stability: Stable under normal temperatures and pressures.

Possibility of Hazardous Reactions: Polymerization is not occurring.

Conditions to Avoid (e.g., Static discharge, Shock or Vibration): Not available

Incompatible Materials: Metal

Hazardous Decomposition Products: Sulfur oxide. When heated, decomposition and ionic oxide formation may occur.

Section 11. Toxicological Information

Information on the likely routes of exposure (inhalation, ingestion, skin, and eye contact): Not available

Symptoms related to the physical, chemical, and toxicological characteristics

Explosives, Water reactive substances, Oxidizing solid, Self-reactive substances, Organic peroxides: Not applicable (no relevance to molecular structure)

Acute Toxicity

Oral: Not classified, LD=17000mg/kg bw (Mouse)

Dermal: Not available

Inhalation: Not available

Skin Corrosion/ Irritation: Not available

Serious Eye Damage/ Irritation: Not available

Respiratory Sensitizer: Not available

Skin Sensitization: Not available

Carcinogenicity: Not classified

IARC: Group 3

(Sodium saccharin produced urothelial bladder tumors in rats by a non-DNA reactive mechanism that involves the formation of a urinary calcium phosphate containing precipitate, cytotoxicity and enhanced cell proliferation. The mechanism is not relative to humans because of critical interspecies differences in urine composition. It is not classifiable as to the carcinogenicity to humans.) (Sodium Saccharin CAS.128-44-9)



NTP, OSHA, ACGIH, Regulation 1272/2008, US EPA: Not listed

Mutagenicity: Not classified

In Vivo: Chromosomal aberrations tests - negative

(Negative or conflicting results were obtained in most studies of chromosomal damage in bone marrow, somatic mutation and sister chromatid exchange in rodents)

In Vivo: Dominant lethal assay in mice - Not induce genotoxicity.

(Sodium saccharin induced dominant lethality in some studies in mice in vivo, it did not induce heritable translocations, chromosomal aberrations in spermatocytes or embryos or altered sperm morphology in rodents)

In Vitro: Sister chromatid exchange, chromosomal aberrations and gene mutations - Not induce genotoxicity.

(The positive results for genotoxicity found with sodium saccharin in mammalian cells in vitro have been hypothesized to result from increased osmolality.) (Sodium Saccharin CAS.128-44-9)

Reproductive Toxicity: Not classified

(Sodium Saccharin was tested for potential effects on reproduction and fertility in Swiss CD-1 mice. (Test condition: daily exposure estimates 3.5, 5.9, 8.1g/kg/day). The increased mortality at high level dose was attributed to complications of dehydration. Test was judged to be essentially negative for reproductive toxicity.)

Specific Target Organ Toxicity (Single Exposure): Not available

Specific Target Organ Toxicity (Repeat Exposure): Not available

Aspiration Hazard: Not available

Section 12. Ecological Information

Aquatic Ecotoxicity

Acute Toxicity: Not classified

Chronic Toxicity: Not classified

Fish (*Pimephales promelas*): 96hr - LC50 = 18.3 g/l

Persistence Degradability

Persistence: Low persistence (Log Kow is less than 4 (logKow<0.3, estimated))
(Saccharin CAS. 81-07-2)

Degradability: It is estimated readily degradable and not expected aquatic ecotoxicity.
(Vapor-phase saccharin will be degraded in the atmosphere (half-life: 3day). And particulate phase saccharin will be removed from the atmosphere. Saccharin is not expected to absorb to suspended solids and sediment. And volatilization from water surfaces is not expected to be an important fate process. (Saccharin CAS. 81-07-2))

Bioaccumulative Potential

Bioaccumulation: Not expected bioaccumulation (BCF is less than 500 and logKow is 0.3.
(BCF=3, estimated))(Saccharin CAS. 81-07-2)

Biodegradation: Not available



Mobility in Soil: A relevant mobility in soil of this substance is not expected (Koc=75L/kg)
(Saccharin CAS. 81-07-2)

Section 13. Disposal Considerations

Waste Treatment Methods: Dispose of product and contaminated packaging in accordance with all local, state, and federal environmental control regulations.

Section 14. Transport Information

UN Number: Not applicable
UN Proper Shipping Name: Not applicable
Transport Hazard Class: Not applicable
Packing Group: Not applicable
Marine Pollutant: Not applicable

Special Precautions

In case of Fire: Not applicable
In case of Leakage: Not applicable

Section 15. Regulatory Information

Korea

Occupational Safety and Health Regulation: Not listed
Toxic Chemical Control Act: Not listed
Dangerous Material Safety Management Regulation: Not listed
Wastes Control Act: Not listed

U.S.A. Management Information

OSHA: Not listed
CERCLA: Not listed
EPCRA 302: Not listed
EPCRA 304: Not listed
EPCRA 313: Not listed

EU Classification

EU Classification - Hazard: Not classified
EU Classification - Safety: Not classified

Other Regulations

Substance of Rotterdam Protocol: Not listed
Substance of Stockholm Protocol: Not listed
Substance of Montreal Protocol: Not listed



Section 16. Other Information

Disclaimer: The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product.

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