

# Material Safety Data Sheets

## 1. IDENTIFICATION

|                     |                                                                                                                        |
|---------------------|------------------------------------------------------------------------------------------------------------------------|
| Product Name        | Sodium benzoate                                                                                                        |
| Other Names         | No Data Available                                                                                                      |
| Uses                | Preservative in foods, medicines and cosmetics.                                                                        |
| Chemical Family     | No Data Available                                                                                                      |
| Chemical Formula    | C7H5NaO2                                                                                                               |
| Chemical Name       | Benzoic acid, sodium salt                                                                                              |
| Product Description | No Data Available                                                                                                      |
| Company             | Arman sina.co                                                                                                          |
| Contact Information | <a href="mailto:info@armansina.com">info@armansina.com</a><br><a href="http://www.armansina.com">www.armansina.com</a> |

## 2. HAZARD IDENTIFICATION

|                   |                                                                                                                                                                                                                                                                      |
|-------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Hazard Categories | Serious Eye Damage/Irritation                                                                                                                                                                                                                                        |
| Risk Phrases      | Causes serious eye irritation.                                                                                                                                                                                                                                       |
| Safety Phrases    | Wash hands thoroughly after handling.<br>Wear eye protection/face protection.<br>IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.<br>If eye irritation persists: Get medical advice. |

Symbol



## 3. COMPOSITION/INFORMATION ON INGREDIENTS

### Ingredients

| Chemical Entity | Formula  | CAS Number | Proportion |
|-----------------|----------|------------|------------|
| Sodium benzoate | C7H5NaO2 | 532-32-1   | <=100 %    |

## 4. FIRST AID MEASURES

### *Description of necessary measures according to routes of exposure*

|                                                  |                                                                                                                                                                                                                                                                                                         |
|--------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Swallowed</b>                                 | IF SWALLOWED: Rinse mouth, then drink a glass of water. Do not induce vomiting. Get medical advice/attention. Never give anything by mouth to an unconscious person.                                                                                                                                    |
| <b>Eye</b>                                       | IF IN EYES: Immediately flush eyes with running water for several minutes, holding eyelids open and occasionally lifting the upper and lower lids. Remove contact lenses if present and easy to do. Continue rinsing for at least 15 minutes. If eye irritation persists, get medical advice/attention. |
| <b>Skin</b>                                      | IF ON SKIN: Remove contaminated clothing and shoes. Flush skin with running water for at least 15 minutes. If skin irritation occurs, get medical advice/attention. Wash contaminated clothing and shoes before reuse.                                                                                  |
| <b>Inhaled</b>                                   | IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If respiratory symptoms persist, get medical advice/attention. Apply resuscitation if victim is not breathing - Administer oxygen if breathing is difficult.                                           |
| <b>Advice to Doctor</b>                          | Treat symptomatically.<br>No information available.                                                                                                                                                                                                                                                     |
| <b>Medical Conditions Aggravated by Exposure</b> |                                                                                                                                                                                                                                                                                                         |

## 5. FIRE FIGHTING MEASURES

|                                           |                                                                                                                                                                 |
|-------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>General Measures</b>                   | If safe to do so, move undamaged containers from fire area. Cool containers with water spray until well after fire is out.                                      |
| <b>Flammability Conditions</b>            | Combustible; May burn but does not ignite readily.                                                                                                              |
| <b>Extinguishing Media</b>                | Use dry chemical, Carbon dioxide (CO <sub>2</sub> ), foam or water spray for extinction - Do not use water jets.                                                |
| <b>Fire and Explosion Hazard</b>          | Avoid generating dust; fine dust dispersed in air in sufficient concentrations, and in the presence of an ignition source is a potential dust explosion hazard. |
| <b>Hazardous Products of Combustion</b>   | Fire may produce irritating, toxic and/or corrosive fumes, including Carbon oxides, Sodium oxides.                                                              |
| <b>Special Fire Fighting Instructions</b> | Contain runoff from fire control or dilution water - Runoff may pollute waterways.                                                                              |
| <b>Personal Protective Equipment</b>      | Wear self-contained breathing apparatus (SCBA) and chemical splash suit. SCBA and structural firefighter's uniform may provide limited protection.              |
| <b>Flash Point</b>                        | No Data Available                                                                                                                                               |
| <b>Lower Explosion Limit</b>              | No Data Available                                                                                                                                               |
| <b>Upper Explosion Limit</b>              | No Data Available                                                                                                                                               |
| <b>Auto Ignition Temperature</b>          | No Data Available                                                                                                                                               |
| <b>Hazchem Code</b>                       | No Data Available                                                                                                                                               |

## 6. ACCIDENTAL RELEASE MEASURES

|                                                                                                       |                                                                                                                                                                                                                                                   |
|-------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>General Response Procedure</b>                                                                     | Ensure adequate ventilation. ELIMINATE all ignition sources. Do not touch or walk through spilled material. Avoid generating dust. Avoid breathing dust and contact with eyes, skin and clothing.                                                 |
| <b>Clean Up Procedures</b>                                                                            | Collect material (sweep or vacuum up) and place in suitable, properly labelled containers for disposal (see SECTION 13). Avoid dispersal of dust in the air (i.e. clearing dust surfaces with compressed air). Non-sparking tools should be used. |
| <b>Containment</b>                                                                                    | Stop leak if safe to do so – Prevent entry into waterways, drains or confined areas. Prevent dust cloud.                                                                                                                                          |
| <b>Decontamination</b>                                                                                | Finish cleaning by spreading water on the contaminated surface and allow to evacuate through the sanitary system, or dispose of, according to local and regional authority requirements.                                                          |
| <b>Environmental Precautionary Measures</b>                                                           | Prevent entry into drains and waterways.                                                                                                                                                                                                          |
| <b>Evacuation Criteria</b>                                                                            | Spill or leak area should be isolated immediately. Keep unauthorised personnel away.                                                                                                                                                              |
| <b>Personal Precautionary Measures Use personal protective equipment as required (see SECTION 8).</b> |                                                                                                                                                                                                                                                   |

## 7. HANDLING AND STORAGE

|                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Handling</b>  | Safety showers and eyewash facilities should be provided within the immediate work area for emergency use. Ensure adequate ventilation. Handle in accordance with good industrial hygiene and safety practice. Minimise dust generation and accumulation. Avoid breathing dust and contact with eyes, skin and clothing. Do not ingest. Use personal protective equipment as required (see SECTION 8). Dry powders can build static electricity charges when subjected to the friction of transfer and mixing operations. Provide adequate precautions, such as electrical grounding and bonding, or inert atmospheres. |
| <b>Storage</b>   | Store in a cool, dry and well-ventilated place, out of direct sunlight. Keep container tightly closed. Hygroscopic - Protect from moisture/humidity. Keep away from heat and sources of ignition - No smoking. Keep away from incompatible materials (see SECTION 10).                                                                                                                                                                                                                                                                                                                                                  |
| <b>Container</b> | Keep in the original container.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

|                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|--------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>General</b>                       | No specific exposure standards are available for this product. For dusts from solid substances without specific occupational exposure standards: <ul style="list-style-type: none"><li>- Safe Work Australia Exposure Standard (Nuisance dusts): 8 hr TWA = 10 mg/m<sup>3</sup> (measured as inhalable dust).</li><li>- New Zealand WES (Particulates not otherwise classified): TWA = 10 mg/m<sup>3</sup>; TWA = 3 mg/m<sup>3</sup> (respirable dust).</li></ul>                                                                                                                                                                                                                     |
| <b>Exposure Limits</b>               | No Data Available                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Biological Limits</b>             | No information available.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Engineering Measures</b>          | A system of local and/or general exhaust is recommended to keep employee exposures as low as possible. Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at its source, preventing dispersion of it into the general work area.                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Personal Protection Equipment</b> | <ul style="list-style-type: none"><li>- Respiratory protection: In case of inadequate ventilation, wear respiratory protection. Recommended: Dust mask/particulate filter respirator (refer to AS/NZS 1715 &amp; 1716).</li><li>- Eye/face protection: Wear appropriate eye protection to avoid eye contact. Recommended: Safety glasses with side-shields or splash goggles.</li><li>- Hand protection: Handle with gloves. Recommended: Impervious gloves, e.g. Nitrile rubber.</li><li>- Skin/body protection: Wear appropriate personal protective clothing to avoid skin contact. Recommended: Impervious clothing, e.g. lab coat or full suit; safety shoes or boots.</li></ul> |
| <b>Special Hazards Precautions</b>   | No information available.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Work Hygienic Practices</b>       | Do not eat, drink or smoke when using this product. Always wash hands before smoking, eating, drinking or using the toilet. Wash contaminated clothing and other protective equipment before storage or re-use. Routine housekeeping should be instituted to ensure that dusts do not accumulate on surfaces.                                                                                                                                                                                                                                                                                                                                                                         |

## 9. PHYSICAL AND CHEMICAL PROPERTIES

|                        |                            |
|------------------------|----------------------------|
| <b>Physical State</b>  | Solid                      |
| <b>Appearance</b>      | Powder or granular, needle |
| <b>Odour</b>           | Odourless                  |
| <b>Colour</b>          | White                      |
| <b>pH</b>              | No Data Available          |
| <b>Vapour Pressure</b> | No Data Available          |

|                                                                       |                                                                                                                                                                 |
|-----------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Relative Vapour Density</b>                                        | 4.97 Air = 1                                                                                                                                                    |
| <b>Boiling Point</b>                                                  | No Data Available                                                                                                                                               |
| <b>Melting Point</b>                                                  | >300 ° C                                                                                                                                                        |
| <b>Freezing Point</b>                                                 | No Data Available                                                                                                                                               |
| <b>Solubility</b>                                                     | Easily soluble in cold water, hot water                                                                                                                         |
| <b>Specific Gravity</b>                                               | No Data Available                                                                                                                                               |
| <b>Flash Point</b>                                                    | No Data Available                                                                                                                                               |
| <b>Auto Ignition Temp</b>                                             | No Data Available                                                                                                                                               |
| <b>Evaporation Rate</b>                                               | No Data Available                                                                                                                                               |
| <b>Bulk Density</b>                                                   | No Data Available                                                                                                                                               |
| <b>Corrosion Rate</b>                                                 | No Data Available                                                                                                                                               |
| <b>Decomposition Temperature</b>                                      | No Data Available                                                                                                                                               |
| <b>Density</b>                                                        | No Data Available                                                                                                                                               |
| <b>Specific Heat</b>                                                  | No Data Available                                                                                                                                               |
| <b>Molecular Weight</b>                                               | 144.11 g/mol                                                                                                                                                    |
| <b>Net Propellant Weight</b>                                          | No Data Available                                                                                                                                               |
| <b>Octanol Water Coefficient</b>                                      | No Data Available                                                                                                                                               |
| <b>Particle Size</b>                                                  | No Data Available                                                                                                                                               |
| <b>Partition Coefficient</b>                                          | No Data Available                                                                                                                                               |
| <b>Saturated Vapour Concentration</b>                                 | No Data Available                                                                                                                                               |
| <b>Vapour Temperature</b>                                             | No Data Available                                                                                                                                               |
| <b>Viscosity</b>                                                      | No Data Available                                                                                                                                               |
| <b>Volatile Percent</b>                                               | No Data Available                                                                                                                                               |
| <b>VOC Volume</b>                                                     | No Data Available                                                                                                                                               |
| <b>Additional Characteristics</b>                                     | No information available.                                                                                                                                       |
| <b>Potential for Dust Explosion</b>                                   | Avoid generating dust; fine dust dispersed in air in sufficient concentrations, and in the presence of an ignition source is a potential dust explosion hazard. |
| <b>Fast or Intensely Burning Characteristics</b>                      | No information available.                                                                                                                                       |
| <b>Flame Propagation or Burning Rate of Solid Materials</b>           | No information available.                                                                                                                                       |
| <b>Non-Flammables That Could Contribute Unusual Hazards to a Fire</b> | No information available.                                                                                                                                       |
| <b>Properties That May Initiate or Contribute to Fire Intensity</b>   | Combustible; May burn but does not ignite readily.                                                                                                              |
| <b>Reactions That Release Gases or Vapours</b>                        | Fire/decomposition may produce irritating, toxic and/or corrosive fumes, including Carbon oxides, Sodium oxides.                                                |
| <b>Release of Invisible Flammable Vapours and Gases</b>               | No information available.                                                                                                                                       |

## 10. STABILITY AND REACTIVITY

|                                         |                                                                                                                  |
|-----------------------------------------|------------------------------------------------------------------------------------------------------------------|
| <b>General Information</b>              | No information available.                                                                                        |
| <b>Chemical Stability</b>               | The product is stable.                                                                                           |
| <b>Conditions to Avoid</b>              | Avoid generating dust. Keep away from heat and sources of ignition. Protect from moisture (hygroscopic).         |
| <b>Materials to Avoid</b>               | Incompatible/reactive with oxidising agents.                                                                     |
| <b>Hazardous Decomposition Products</b> | Fire/decomposition may produce irritating, toxic and/or corrosive fumes, including Carbon oxides, Sodium oxides. |
| <b>Hazardous Polymerisation</b>         | Will not occur.                                                                                                  |

## 11. TOXICOLOGICAL INFORMATION

### General Information

- Acute toxicity: Ingestion of large amounts may cause gastrointestinal tract irritation with gastric pain, nausea and vomiting. May also affect behaviour/central nervous system (tremor, convulsions, change in motor activity) and respiration (dyspnea).
- Skin corrosion/irritation: May cause skin irritation.
- Eye damage/irritation: Causes serious eye irritation.
- Respiratory/skin sensitisation: Not sensitising.
- Germ cell mutagenicity: Negative, in vivo.
- Carcinogenicity: Not carcinogenic.
- Reproductive toxicity: No information available.
- STOT (single exposure): May cause respiratory tract irritation.
- STOT (repeated exposure): Prolonged or repeated ingestion may affect behaviour/central nervous system (symptoms similar to acute exposure) as well as liver, metabolism, blood and urinary system.
- Aspiration toxicity: No information available.

### Acute

#### Ingestion

- Acute toxicity (Oral):
- LD50, Rat: >2,000 mg/kg bw.

#### Carcinogen Category

None

## 12. ECOLOGICAL INFORMATION

### Ecotoxicity

No information available.

### Persistence/Degradability

Readily biodegradable.

### Mobility

No information available.

### Environmental Fate

Prevent entry into drains and waterways.

### Bioaccumulation Potential

No information available.

### Environmental Impact

No Data Available

## 13. DISPOSAL CONSIDERATIONS

### General Information

Dispose of contents/container in accordance with local/regional/national regulations. Normally suitable for incineration by an approved agent.

### Special Precautions for Land Fill

No information available.

## 14. TRANSPORT INFORMATION

### Land Transport

|                      |                                                        |
|----------------------|--------------------------------------------------------|
| Proper Shipping Name | Sodium benzoate                                        |
| Class                | No Data Available                                      |
| Subsidiary Risk(s)   | No Data Available                                      |
|                      | No Data Available                                      |
| UN Number            | No Data Available                                      |
| Hazchem              | No Data Available                                      |
| Pack Group           | No Data Available                                      |
| Special Provision    | No Data Available                                      |
| Comments             | NON-DANGEROUS GOODS: Not regulated for LAND transport. |

### Sea Transport

|                      |                                                       |
|----------------------|-------------------------------------------------------|
| Proper Shipping Name | Sodium benzoate                                       |
| Class                | No Data Available                                     |
| Subsidiary Risk(s)   | No Data Available                                     |
| UN Number            | No Data Available                                     |
| Hazchem              | No Data Available                                     |
| Pack Group           | No Data Available                                     |
| Special Provision    | No Data Available                                     |
| EMS                  | No Data Available                                     |
| Marine Pollutant     | No                                                    |
| Comments             | NON-DANGEROUS GOODS: Not regulated for SEA transport. |

### Air Transport

|                      |                                                       |
|----------------------|-------------------------------------------------------|
| Proper Shipping Name | Sodium benzoate                                       |
| Class                | No Data Available                                     |
| Subsidiary Risk(s)   | No Data Available                                     |
| UN Number            | No Data Available                                     |
| Hazchem              | No Data Available                                     |
| Pack Group           | No Data Available                                     |
| Special Provision    | No Data Available                                     |
| Comments             | NON-DANGEROUS GOODS: Not regulated for AIR transport. |

## 15. OTHER INFORMATION

Revision

2

Key/Legend

< Less Than  
 > Greater Than  
 atm Atmosphere  
 CAS Chemical Abstracts Service (Registry Number)  
 cm<sup>2</sup> Square Centimetres  
 CO<sub>2</sub> Carbon Dioxide  
 COD Chemical Oxygen Demand  
 deg C (° C) Degrees Celcius  
 deg F (° F) Degrees Farenheit  
 g Grams  
 g/cm<sup>3</sup> Grams per Cubic Centimetre  
 g/l Grams per Litre  
 HSNO Hazardous Substance and New Organism  
 IDLH Immediately Dangerous to Life and Health  
 immiscible Liquids are insoluable in each other.  
 inHg Inch of Mercury  
 inH<sub>2</sub>O Inch of Water  
 K Kelvin  
 kg Kilogram  
 kg/m<sup>3</sup> Kilograms per Cubic Metre  
 lb Pound  
 LC50 LC stands for lethal concentration. LC50 is the concentration of a material in air which causes the death of 50% (one half) of a group of test animals. The material is inhaled over a set period of time, usually 1 or 4 hours.  
 LD50 LD stands for Lethal Dose. LD50 is the amount of a material, given all at once, which causes the death of 50% (one half) of a group of test animals.  
 ltr or L Litre  
 m<sup>3</sup> Cubic Metre  
 mbar Millibar  
 mg Milligram  
 mg/24H Milligrams per 24 Hours  
 mg/kg Milligrams per Kilogram  
 mg/m<sup>3</sup> Milligrams per Cubic Metre  
 Misc or Miscible Liquids form one homogeneous liquid phase regardless of the amount of either component present.  
 mm Millimetre  
 mmH<sub>2</sub>O Millimetres of Water  
 mPa.s Millipascals per Second  
 N/A Not Applicable  
 NIOSH National Institute for Occupational Safety and Health  
 NOHSC National Occupational Heath and Safety Commission  
 OECD Organisation for Economic Co-operation and Development  
 Oz Ounce  
 PEL Permissible Exposure Limit  
 Pa Pascal  
 ppb Parts per Billion  
 ppm Parts per Million  
 ppm/2h Parts per Million per 2 Hours  
 ppm/6h Parts per Million per 6 Hours  
 psi Pounds per Square Inch  
 R Rankine  
 RCP Reciprocal Calculation Procedure  
 STEL Short Term Exposure Limit  
 TLV Threshold Limit Value  
 tne Tonne  
 TWA Time Weighted Average  
 ug/24H Micrograms per 24 Hours  
 UN United Nations  
 wt Weight