



WEST BENGAL CHEMICAL INDUSTRIES LIMITED

145/1, Jessore Road, Lake Town,  
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## MATERIAL SAFETY DATA SHEET

### Section 1 - Chemical Product and Company Identification

**Product Name:** Sodium Propionate

**Product Code :** SOPNL98

**Company Identification:**

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### Section 2 - Composition / Information on Ingredients

<b>Chemical Name</b>	:	Sodium Propionate
<b>Molecular Formula</b>	:	C <sub>3</sub> H <sub>5</sub> O <sub>2</sub> Na
<b>Molecular Weight</b>	:	96.06 g/mol
<b>CAS Number</b>	:	137-40-6
<b>EC Number</b>	:	1272/2008

### Section 3 - Hazards Identification

**Potential Acute Health Effects:**

Hazardous in case of skin contact (irritant), of eye contact (irritant), of ingestion, of inhalation.

**Potential Chronic Health Effects:**

CARCINOGENIC EFFECTS: Not available.

MUTAGENIC EFFECTS: Not available.

TERATOGENIC EFFECTS: Not available.

DEVELOPMENTAL TOXICITY: Not available.

Repeated or prolonged exposure is not known to aggravate medical condition.

**Acute Toxicity:** 4 (63.18%)

**Skin Irritation:** 2 (22.64%)

**Eye Irritation:** 2 (59.46%)

**STOT SE:** 3 (35.14%)

**GHS Hazard Statements:**

H312 (63.18%): Harmful in contact with skin





### Section 3 - Hazards Identification

[Warning Acute toxicity, dermal]

H315 (22.64%): Causes skin irritation

[Warning Skin corrosion/irritation]

H319 (59.46%): Causes serious eye irritation

[Warning Serious eye damage/eye irritation]

H335 (35.14%): May cause respiratory irritation

[Warning Specific target organ toxicity, single exposure; Respiratory tract irritation]

#### GHS Precautionary Statements:

P264: Wash hands [and ...] thoroughly after handling.

P271: Use only outdoors or in a well-ventilated area.

P280: Wear protective gloves/protective clothing/eye protection/face protection/hearing protection

P302+P352: IF ON SKIN: wash with plenty of water

P304+P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing.

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

P321: Specific treatment

P403+P233: Store in a well-ventilated place. Keep container tightly closed.

P405: Store locked up.

P264+P265: Wash hands thoroughly after handling. Do not touch eyes.

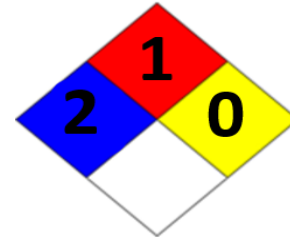
P317: Get emergency medical help.

P319: Get medical help if you feel unwell.

P332+P317: If skin irritation occurs: Get medical help.

P337+P317: If eye irritation persists: Get medical help.

P362+P364: Take off contaminated clothing and wash it before reuse.



NFPA SCALE (0-4)

Health	2
Flammability	1
Physical Hazard	0
Personal protection	E

HMIS RATINGS (0-4)





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## Section 4 - First Aid Measures

### **Eye Contact:**

Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Cold water may be used. Get medical attention.

### **Skin Contact:**

In case of contact, immediately flush skin with plenty of water. Cover the irritated skin with an emollient. Remove contaminated clothing and shoes. Cold water may be used. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention.

### **Serious Skin Contact:**

Wash with a disinfectant soap and cover the contaminated skin with an anti-bacterial cream. Seek medical attention.

### **Inhalation:**

If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

### **Serious Inhalation:**

Not available.

### **Ingestion:**

Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention if symptoms appear.

## Section 5 - Fire-Fighting Measures

### **Flammability of the Product:**

May be combustible at high temperature.

### **Auto-Ignition Temperature:**

Not available.

### **Flash Points:**

> 250 °C / > 482°F

### **Flammable Limits:**

Not available.

### **Products of Combustion:**

Some metallic oxides.

### **Fire Hazards in Presence of Various Substances:**

Slightly flammable to flammable in presence of heat.

### **Explosion Hazards in Presence of Various Substances:**

Risks of explosion of the product in presence of mechanical impact: Not available. Slightly explosive in presence of open flames and sparks.





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## Section 6 - Accidental Release Measures

### Small Spill:

Use appropriate tools to put the spilled solid in a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and dispose of according to local and regional authority requirements.

### Large Spill:

Use a shovel to put the material into a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and allow to evacuate through the sanitary system.

## Section 7 - Handling and Storage

### Precautions:

Keep away from heat. Keep away from sources of ignition. Empty containers pose a fire risk, evaporate the residue under a fume hood. Ground all equipment containing material. Do not ingest. Do not breathe dust. Wear suitable protective clothing. In case of insufficient ventilation, wear suitable respiratory equipment. If ingested, seek medical advice immediately and show the container or the label. Avoid contact with skin and eyes. Keep away from incompatibles such as oxidizing agents.

### Storage:

Keep container tightly closed, away from sunlight.

### Storage Class:

Storage Class (TRGS 510): 11: Combustible Solids

## Section 8 - Exposure Controls / Personal Protection

### Engineering Controls:

Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.

### Personal Protection:

Splash goggles. Lab coat. Dust respirator. Be sure to use an approved/certified respirator or equivalent. Gloves.

### Personal Protection in Case of a Large Spill:

Splash goggles. Full suit. Dust respirator. Boots. Gloves. A self contained breathing apparatus should be used to avoid inhalation of the product. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.

### Exposure Limits:

Not available.





## Section 9 - Physical and Chemical Properties

### 9.1 Information on basic physical and chemical properties

#### Appearance Form

Form	:	Free flowing powder
Color	:	White
Odour	:	no data available
Solubility	:	Water Solubility- 1000g/l at 25 °C Alcohol Solubility- 1538g/l at 25 °C
pH of a 10% w/v Suspension	:	5.0-8.5
Boiling Point	:	> 500 °C
Vapor Pressure	:	< 0.1hPa at 20 °C - OECD Test Guideline 104
Flash Point	:	>250°C
Partition	:	< 0.3 at 20 °C
Melting point/freezing point	:	no data available
Initial boiling point and boiling range	:	no data available
Sublimation Temperature:	:	no data available
Density:	:	no data available
Vapour pressure	:	no data available
Vapour density	:	no data available
Refractive density	:	no data available
Water solubility	:	no data available
Decomposition temperature	:	no data available
Viscosity	:	no data available
9.2 Other safety Information	:	No data available





## Section 10 - Stability and Reactivity

**Stability:**

The product is stable at recommended conditions.

**Instability Temperature:**

Not available.

**Conditions of Instability:**

Excess heat, incompatible materials

**Incompatibility with various substances:**

Reactive with oxidizing agents.

**Corrosivity:**

Non-corrosive in presence of glass.

## Section 11 - Toxicological Information

**Routes of Entry:**

Inhalation. Ingestion.

**Toxicity to Animals:**

Acute oral toxicity (LD50): 5600 mg/kg [Mouse].

**Chronic Effects on Humans:**

Not available.

**Other Toxic Effects on Humans:**

Hazardous in case of skin contact (irritant), of ingestion, of inhalation.

**Special Remarks on Toxicity to Animals:**

Not available.

**Special Remarks on Chronic Effects on Humans:**

Not available.

**Special Remarks on other Toxic Effects on Humans:**

**Acute Potential Health Effects: Skin:** May cause skin irritation. **Eyes:** Causes eye irritation.

**Inhalation:** May cause respiratory tract irritation. **Ingestion:** Ingestion of large amounts may cause gastrointestinal tract irritation.

**Acute Toxicity:**

**Oral LD50 (Rat):** Approximately 5,600 mg/kg body weight, indicating low toxicity via ingestion.

**Dermal LD50 (Rabbit):** Approximately 500 mg/kg body weight, showing low dermal toxicity.

**Inhalation:** Sodium propionate is considered to have low toxicity by inhalation, though fine particles can be an irritant to respiratory passages.

**Skin and Eye Irritation:**

**Skin Irritation:** Sodium propionate may cause mild irritation upon prolonged or repeated contact.





**Eye Irritation:** Direct contact with the eyes may cause mild irritation.

**Sensitization:**

**Skin Sensitization:** No evidence of sensitization effects on skin or respiratory systems.

**Chronic Toxicity:**

NOAEL (No-Observed-Adverse-Effect Level): In a 90-day dietary study on dogs, the NOAEL was determined to be 0.3% propionic acid in the diet, based on the absence of adverse epithelial effects.

**Carcinogenicity, Mutagenicity, Reproductive Toxicity:**

**Genotoxicity:** Sodium propionate is not classified as mutagenic or genotoxic.

**Carcinogenicity:** Not classified as carcinogenic by major regulatory bodies.

**Reproductive Toxicity:** No adverse effects on fertility or development have been observed in relevant animal studies.

## Section 12 - Ecological Information

**Ecotoxicity:**

Not available.

**BOD5 and COD:**

Not available.

**Products of Biodegradation:**

Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise.

**Toxicity of the Products of Biodegradation:**

The product itself and its products of degradation are not toxic.

**Special Remarks on the Products of Biodegradation:**

Not available.

**Toxicity:**

**Toxicity to Daphnia and other aquatic invertebrates:**

**Static test EC50 - *Daphnia magna* (Water flea) - > 100 mg/l - 48 h (OECD Test Guideline 202)**

**Toxicity to algae static test ErC50 - *Pseudokirchneriella subcapitata* (green algae) - > 80,6 mg/l - 72 h (OECD Test Guideline 201)**

**Persistence and degradability:**

Biodegradability aerobic - Exposure time 28 d

Result: 92.9 % - Readily biodegradable (OECD Test Guideline 301D).

**Aquatic Toxicity:**

**Fish (LC50):** >100 mg/L (96-hour) for *Oncorhynchus mykiss* (rainbow trout), indicating low toxicity.

Invertebrates (EC50): >100 mg/L (48-hour) for *Daphnia magna* (water flea), indicating low toxicity to aquatic invertebrates.

**Algae (EC50):** >100 mg/L (72-hour) for *Pseudokirchneriella subcapitata*, indicating low toxicity to algae.





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## Section 12 - Ecological Information

### **Persistence and Degradability:**

**Biodegradability:** Sodium propionate is readily biodegradable under aerobic conditions, breaking down quickly in natural environments. It does not persist in soil or water.

### **Bioaccumulative Potential:**

Bioaccumulation Factor (BCF): Less than 100, indicating low potential for bioaccumulation in aquatic organisms.

### **Mobility in Soil:**

Sodium propionate degrades rapidly and is readily utilized by soil microorganisms, reducing any long-term environmental impact in terrestrial settings.

### **Environmental Precautions:**

Although sodium propionate is generally low in toxicity, it should be prevented from entering large water bodies to avoid increased biological oxygen demand (BOD), which could indirectly affect aquatic life by depleting oxygen levels.

This format aligns with standard MSDS requirements for Sections 11 and 12, providing clear and concise information on sodium propionate's toxicological and ecological profiles.

## Section 13 - Disposal Considerations

### **Waste Disposal:**

Waste must be disposed of in accordance with federal, state and local environmental control regulations.







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## Section 14 - Transport Information

**DOT Classification:**

Not a DOT controlled material.

**Identification:**

Not applicable.

**Special Provisions for Transport:**

Not applicable.

## Section 15 - Regulatory Information

**Federal and State Regulations:** TSCA 8(b) inventory: Sodium Propionate

**Other Regulations:**

EINECS: This product is on the European Inventory of Existing Commercial Chemical Substances.

**Other Classifications:**

**WHMIS (Canada):** Not controlled under WHMIS (Canada).

**DSCL (EEC):**

R36- Irritating to eyes. S24/25- Avoid contact with skin and eyes. S36/37/39- Wear suitable protective clothing, gloves and eye/face protection. S45- In case of accident or if you feel unwell, seek medical advice immediately.

**HMIS (U.S.A.):**

Health Hazard: 2

Fire Hazard: 1

Reactivity: 0

Personal Protection: E

**National Fire Protection Association (U.S.A.):**

Health: 2

Flammability: 1

Reactivity: 0

Specific hazard:

Protective Equipment:

Gloves. Lab coat. Dust respirator. Be sure to use an approved/certified respirator or equivalent.

Splash goggles.





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## Section 16 - Other Information

**Disclaimer:** This material safety data sheet is provided as an information resource only. WEST BENGAL CHEMICAL INDUSTRIES LIMITED believes the information contained herein is accurate and compiled from reliable sources. It is the responsibility of the user to verify its validity. The buyer assumes all responsibility of using and handling the product in accordance with federal, state, and local regulations.

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