



# MATERIAL SAFETY DATA SHEET

## Section 1. Company Identification and Product Information

<b>Product Name or Identity:</b>	<b>Azide Dextrose Broth</b>		
<b>Manufacturer's Name:</b>	Acumedia Manufacturers, Inc.	<b>Emergency Phone No.:</b>	517/372-9200
	740 East Shiawassee	<b>Fax No.:</b>	517/372-0108
	Lansing, Michigan 48912	<b>e-mail:</b>	foodsafety@neogen.com
<b>Date Prepared or Revised:</b>	December 2009	<b>Chemtrec: (800) 424-9300</b>	
		<b>Outside US and Canada: (703) 527-3887</b>	

## Section 2. Composition / Information on Hazardous Ingredients

This product is a mixture of the substances listed below with the addition of nonhazardous materials.

<b>Hazardous Components</b> Specific Chemical Identity:	<b>CAS-No.</b>	<b>%</b>	<b>Hazard Symbol</b>
Sodium Chloride (NaCl)	7647-14-5	7.5%	Xi (Irritant)
Sodium Azide	26628-22-8	0.2%	Xn (Harmful)

## Section 3. Health Hazard Identification

<b>Health Hazards:</b> (Acute and Chronic)	<b>Information pertaining to particular dangers for man and environment.</b> R 22, Harmful if swallowed. R 36 / 37 / 38, Irritating to eyes, respiratory system, and skin.
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## Section 4. First Aid Measures

<b>Emergency / First Aid Procedures:</b>	<b>General Information:</b> Symptoms of poisoning may even occur after several hours; therefore provide medical observations for at least 48 hours after the accident.
	<b>Ingestion:</b> If swallowed, seek medical attention. Show physician product label or MSDS.
	<b>Inhalation:</b> If inhaled, supply fresh air or oxygen. Seek medical attention if breathing becomes labored or difficult.
	<b>Eye Contact:</b> Rinse opened eye for at least 15 minutes under running water, lifting lower and upper eyelids occasionally. Seek medical attention.
	<b>Skin Contact:</b> Remove contaminated clothing. Immediately wash with plenty of soap and water for at least 15 minutes. Wash clothing before reuse. Seek medical attention if irritation develops.

## Section 5. Fire and Explosion Hazard Data

<b>Flash Point (Method Used):</b> N/A	<b>Flammable Limits:</b> LEL – N/A UEL – N/A
<b>Extinguishing Media:</b> Use CO <sub>2</sub> , ABC multipurpose dry chemical, or water spray. Fight larger fires with water spray or alcohol resistant foam.	
<b>Protective Equipment:</b> No special measures required.	
<b>Unusual Fire and Explosion Hazards:</b> During heating or in case of fire, poisonous gases (Nitrogen oxides) may be produced.	

## Section 6. Accidental Release Measures

<b>Personal Precautions:</b> Wear suitable protective clothing. Remove contaminated clothing immediately. Avoid inhalation, contact with eyes and skin. Prevent formation of dust. Prevent direct contact with skin, eyes, or clothing. Place contaminated material in a chemical waste container.
<b>Environmental Precautions:</b> Prevent dispersion of material. Wipe up with damp sponge or mop.
<b>Clean-up Methods:</b> Absorb material, ventilate area, and wash spill site after material has been cleaned up.
<b>Refer to Section 7</b> for Handling Information.
<b>Refer to Section 8</b> for Person Protection Equipment.
<b>Refer to Section 13</b> for Disposal Information.



**Section 7. Handling and Storage**

**Handling:** Protect against physical damage. Ensure good ventilation / exhaust. Prevent formation of dust.

**Storage:** Requirements to be met by storerooms and receptacles: 2- 30°C

Do not store together with oxidizing agents and acidic materials as well as heavy-metal compounds. Store in cool, dry conditions in well sealed containers.

**Other Precautions:** No special measures required.

**Section 8. Exposure Controls / Personal Protection**

**Components with limit values that require monitoring:** Sodium Azide (26628-22-8)

<b>OSHA-PEL:</b> N/A	<b>REL:</b> Short term value: C0.3 mg/m <sup>3</sup> (HN3 vapor)	<b>TLV:</b> Short-term value: C 0.29 mg/m <sup>3</sup> (HN3 vapor)
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**Additional Information:** Personal Protection listed below are general requirements for laboratory personnel. Follow the usual precautionary measures for handling chemicals / powder. Avoid contact with eyes, skin, and clothing.

**Personal Protective Equipment:**

Keep away from food, beverages, and feed.  
Wash hands before and after entering laboratory.  
Immediately remove all soiled and contaminated clothing.  
Avoid contact with eyes and skin.

**Breathing Equipment:** In case of brief exposure, use a chemical fume hood or a NIOSH/MSHA-approved respiratory.

**Hand Protection:** Use chemical resistant gloves.

**Eye Protection:** Wear safety glasses or goggles.

**Body Protection:** Wear lab coat or other protective work clothing.

**Section 9. Physical and Chemical Properties**

**Appearance and Odor:** Homogenous, free-flowing powder, beige.

**Boiling Point:** Not determined

**Density:** Not determined

**Flash Point:** Not applicable

**Melting Point:** Not determined

**Auto Igniting:** Product is not flammable.

**Solubility in Water:** Soluble

**Danger of explosion:** Forms very sensitive explosive metallic compounds.

**pH:** 7.1 ± 0.2 @ 25°C

**Solvent Content:** Organic solvents – 0.0%

**Solids Content:** 100.0%

**Section 10. Stability and Reactivity**

**Stability:**

Unstable

Stable

X

Conditions to Avoid: Stable under normal storage conditions.

**Incompatibility (Materials to Avoid):** Incompatible with strong oxidizing agents, acidic material, or metals.

**Hazardous Decomposition or Byproducts:** Chlorine (Cl), Carbon dioxide (CO<sub>2</sub>), Carbon monoxide (CO), and Nitrogen oxides (NO<sub>x</sub>).

**Hazardous Polymerization:**

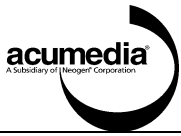
May Occur

Will Not Occur

X

Sodium azide is present in this product. Contact with acidic solutions and metal compounds over time may form potentially explosive metal azides. Should any of this material be introduced into a sanitary sewer system, flush with copious amounts of water.

**Section 11. Toxicological Information**



**LD/LC50 values that are relevant:**

LD<sub>50</sub>: ORL-RAT, 27 mg/kg, Sodium Azide (26628-22-8)

**Carcinogenicity Classification:**

**IARC (International Agency for Research on Cancer)** - Not listed

**NTP (National Toxicology Program)** - Not listed

**Carcinogenicity Classification:**

**IARC (International Agency for Research on Cancer)** – Not Listed

**NTP (National Toxicology Program)** Not Listed

**Eye:** Produces irritation.

**Inhalation:** Irritant if inhaled, coughing possible.

**Chronic:** Target organs: Cardiovascular system, respiratory system, central nervous system, eyes, kidneys and skin. Prolonged or repeated skin contact may cause dermatitis.

**Additional toxicological information:** This product has a TDLo of 118 mg/kg (Or-human) based upon Sodium Azide content. Classified as Harmful, Irritant.

**Section 12. Ecological Information**

**Ecotoxicity Tests:** Water Hazard Class 1. Slightly hazardous for water. The ecological effects have not been thoroughly investigated, but currently none have been identified.

**Section 13. Disposal Considerations**

**Waste Disposal Method:** Dispose in accordance with all applicable federal (40 CFR 261.3), state, and local environmental regulations. Smaller quantities can be disposed of with solid waste.

RCRA Hazardous Waste: No

Contact a licensed professional waste disposal service to dispose of this material if questions arise.

**Container Information:** Do not remove labels from containers until they have been cleaned.

**Section 14. Transport Information**

**DOT Regulations:** Not Regulated

**Land Transport ADR/RID (cross-border):** Not Regulated

**Maritime Transport IMDG:** Not Regulated

**Marine Pollutant:** No

**Air Transport ICAO-TI and IATA-DGR:** Not Regulated

**Section 15. Regulatory Information**

**EU Regulations, Hazard Symbol(s): Sodium Chloride: Xi (Irritant) Sodium Azide: Xn (Harmful)**

**TLV (Threshold Limit Value established by ACGIH):** Sodium Azide (26628-22-8): A4

**Risk Phrases:** R 22, Harmful if swallowed. R 36 / 37 / 38, Irritating to eyes, respiratory system, and skin.

**Safety Phrases:** S 13, Keep away from food, drink, and animal feedstuff. S 22, Do not breathe dust.

S 24 / 25 / 26, Avoid contact with skin and eyes. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. S 36, Wear suitable protective clothing.

S 46, If swallowed, seek medical advice immediately and show this container or label.

**Section 16. Other Information**

This document is believed to be correct, but does not purport to be all inclusive and shall be used only as a guide. Acumedia Manufacturers, Inc. shall not be held liable for any damage resulting from handling or from contact with the above product. These suggestions should not be confused with state, municipal or insurance requirements, and constitute NO WARRANTY.