

SAFETY DATA SHEET

Section 1. Chemical Product & Company Identification

TITAN INDUSTRIAL CHEMICALS, LLC

P.O.BOX 635 GROVER, MO. 63040 636-273-9033

Product Name: **BACTO PACK**
Product Use: **BACTERIAL CULTURE**
Product Code: **49025**
EMERGENCY NUMBER: INFOTRAC 1-800-535-5053

Section 2. Hazards Identification

Physical Hazards: This chemical does not meet the hazardous criteria set forth by the 2012 OSHA Hazard Communication Standard (29CFR 1910.1200). However, this Safety Data Sheet contains valuable information critical to the safe handling and proper use of this product. This SDS should be retained and available for employees and other users of this product.

This product contains no substances which, at their given concentration, are considered to be hazardous to health.

OSHA Defined Hazards: None

Label Elements:

None required.

Signal Word: None required.

Other Hazards: None

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Section 3. Composition/Information on Ingredients

<u>Chemical Name</u>	<u>CAS Number</u>	<u>% by Weight</u>
Sodium hydrogencarbonate	144-55-8	5-10

Due to Trade Secret, the exact percentage of composition has been stated as a range. The exact identities of other ingredients has also been withheld as Trade Secret. However, they do not contribute to the identified hazards of the product and will be divulged to proper authorities in an emergency.

Section 4. First Aid Measures

Eye Contact: Rinse thoroughly with plenty of water for at least 15 minutes, lifting upper and lower lids. Get medical advice/attention.

Skin Contact: Wash with plenty of water. If skin irritation occurs: get medical advice/attention. Take off contaminated clothing and wash it before reuse.

Inhalation: Move to fresh air. Call a physician if symptoms develop or persist.

Ingestion: Rinse mouth with water and drink plenty of water.

Most Important Symptoms/Effects, Acute & Delayed: No known symptoms or effects.

Indication of Immediate Medical Attention & Special Treatment Needed: Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed.

Section 5. Fire Fighting Measures

Suitable Extinguishing Media: Water fog. Foam. Dry chemical powder. Carbon dioxide.

Specific Hazards Arising From the Chemical: During fire, gases hazardous to health may be formed.

Special Protective Equipment and Precautions for Firefighters: Self contained breathing apparatus and full protective clothing.

Fire Fighting Equipment/Instructions: Move containers from area if you can do so without risk.

Specific Methods: Use standard firefighting procedures and consider the hazards of other involved materials.

General Fire Hazards: No unusual fire or explosion hazards noted.

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Section 6. Accidental Release Measures

Personal Precautions, Protective Equipment & Emergency Procedures: Keep unnecessary personnel away. Keep people away from and upwind of spill. Keep out of low areas. Wear appropriate protective equipment and clothing during clean up. Do not breathe dust, mist or vapor. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained.

Methods & Materials for Containment & Cleaning Up: This product is soluble in water. Large spills: stop the flow of material, if this is without risk. Dike the spilled material, where possible. Cover with plastic sheet to prevent spreading. Prevent entry into waterways, sewer, basements or confined areas. Following product recovery, flush area with water.

Small spills: Scoop material and place in container for disposal. Clean surface thoroughly with water to remove residual contamination. Never return spilled material to original container.

Environmental Precautions: Avoid release to the environment. Inform appropriate managerial or supervisory personnel of all releases. Prevent further leakage or spillage if safe to do so.

Section 7. Handling and Storage

Precautions for Safe Handling: Do not get in eyes, on skin, or on clothing. Wear appropriate personal protective equipment. Observe good industrial hygiene practices.

Conditions for Safe Storage, including any Incompatibilities: Store in original tightly closed container. Store away from any incompatible materials (see sec. 10).

Section 8. Exposure Controls/Personal Protection**Occupational Exposure Guidelines:**

None noted

Appropriate Engineering Controls: Good general ventilation should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Eye wash facilities and emergency shower must be available when handling this product. It is recommended that users of this product perform a risk assessment to determine the appropriate PPE.

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Individual Protection Measures, Personal Protective Equipment:**Eye/Face:** Wear eye protection and face protection.**Skin/Body:** Wear chemical resistant gloves.**Respiratory:** No special protective equipment is needed under normal use conditions.**General Hygiene Considerations:** Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothes and protective equipment to remove contaminants.**Section 9. Physical & Chemical Properties****Appearance:** Brown, granular**Physical State :** Solid**pH:** N/A**Boiling Point:** N/A**Vapor Pressure:** Unknown**Melting Point/Freeze Point:** Unknown**Evaporation Rate:** Not available**Upper Flammability Limit:** Not available**Explosive Properties:** Not available**Water Solubility:** Soluble**Decomposition Temperature:** Not available**Oxidizing Properties:** Not an oxidizer.**Color:** Brown**Odor:** No odor**Odor Threshold:** Not available**Specific Gravity:** N/A**Flash Point:** N/A**Flammability (solid, gas):** Non-flammable**Lower Flammability Limit:** Not available**Vapor Density:** Not available**Auto-Ignition Temperature:** Not available**Viscosity:** N/A**Other Solubilities:** Not available**Section 10. Stability & Reactivity****Reactivity:** Not reactive under normal conditions.**Chemical Stability:** Stable under normal conditions.**Possibility of Hazardous Reactions:** Hazardous polymerization does not occur.**Conditions to Avoid:** Do not mix with other chemicals.**Incompatibility:** None known.**Hazardous Polymerization:** Will not occur.**Hazardous Decomposition Products:** None produced under normal conditions of storage and use.

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Section 11. Toxicological Information**INFORMATION ON LIKELY ROUTES OF EXPOSURE:**

Inhalation: Mild irritant

Ingestion: Mild irritant

Skin Contact: Mild irritant

Eye Contact: Mild irritant

COMPONENT INFORMATION:

<u>Chemical Name</u>	<u>Oral LD50</u>	<u>Dermal LD50</u>	<u>Eye</u>
Sodium hydrogencarbonate	4220mg/kg (rat)	30mg intermittent 72hr.	100mg, .5 minutes

INFORMATION ON PHYSICAL, CHEMICAL, TOXICOLOGICAL EFFECTS:

Symptoms: See sec. 4 of this SDS for symptoms.

DELAYED & IMMEDIATE EFFECTS AS WELL AS CHRONIC EFFECTS FROM SHORT TERM EXPOSURE & LONG TERM EXPOSURE:

Carcinogenicity: Not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA

Respiratory Sensitization: Not a respiratory sensitizer.

Skin Sensitization: Not a skin sensitizer.

Germ Cell Mutagenicity: No data available to indicate product is mutagenic or genotoxic.

Reproductive Toxicity: Not expected to cause reproductive toxicity.

Specific Target Organ Toxicity, Single exposure: Not classified

Specific Target Organ Toxicity, repeated exposure: Not classified.

Aspiration Hazard: Not available.

Chronic Effects: None noted.

Section 12. Ecological Information

Ecotoxicity: No information available.

<u>Chemical</u>	<u>Algae/Aquatic Plants</u>	<u>Fish</u>	<u>Crustacea</u>
Sodium hydrogen-carbonate	EC50 650000ug/L fresh water 96h Naviculum seminulum	LC50 7550ppm fresh water, 96h gambusia affinis	LC50 767.87 mg/L marine water 48h Americamysis bahia

Persistence & Degradability: No data available.

Bioaccumulation: No data available.

Mobility in Soil: No data available.

Other adverse Effects: No other adverse effects expected.

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Section 13. Disposal Considerations

Disposal Instructions: Disposal should be in accordance with applicable regional, national and local laws and regulations.

Hazardous Waste Code: Not a hazardous waste.

Waste from Residues/Unused Products: Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see Disposal Instructions).

Contaminated Packaging: Since empty containers may contain product residue, follow all label warnings even after container is emptied. Follow disposal directions.

Section 14. Transport Information

Regulatory Information	UN Number	Proper Shipping Name	Classes	PG*	Label
DOT Classification: Not Regulated					

NOTE: DOT Classification applies to most package sizes. For specific container size classifications or for size exceptions, refer to the Bill Of Lading with your shipment.

PG*: Packing Group

Section 15. Regulatory Information

TSCA: Not determined

U.S. Federal Regulations:

SARA 313 toxic chemical notification and release reporting: Not regulated

SARA 312:

Immediate (acute) Health Hazard: Yes

Delayed (chronic) Health Hazard: No

Fire Hazard: No

Sudden Release of Pressure: No

Reactivity: No

State Regulations: None of the components are listed.

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Section 16. Other Information

NFPA: 2,0,0,B

HMIS: 2,0,0, B

Issue Date: 10/2/15

Revision Date: N/A

Revision Note: N/A

To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of the suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution.

Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

**Note: Hazard Determination System (HDS) ratings are on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although these ratings are not required on SDS's under 29 CFR 1910.1200, the preparer may choose to provide them. HDS ratings are to be used with a fully implemented program to relay the meanings of this scale.*