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MATERIAL SAFETY DATA SHEET (MSDS)**SODIUM PYRUVATE (FOR BIOCHEMISTRY) (PYRUVIC ACID SODIUM SALT)****1. Product Identification**

Synonyms: Propanoic acid, 2-oxo-, sodium salt; acetylformic acid, sodium salt; Sodium pyruvate
CAS No.: 113-24-6

Product Code: S0191700500

Molecular Weight: 110.04
Chemical Formula: CH₃COCO₂Na

2. Composition/Information on Ingredients

Ingredient	CAS No	Percent
Pyruvic Acid, Sodium Salt	113-24-6	90 - 100%

3. Hazards Identification

Emergency Overview As part of good industrial and personal hygiene and safety procedure, avoid all unnecessary exposure to the chemical substance and ensure prompt removal from skin, eyes and clothing.
Inhalation: No adverse health effects expected from inhalation.
Ingestion: Large doses may cause gastro-intestinal upset.
Skin Contact: No adverse effects expected.
Eye Contact: No adverse effects expected.
Chronic Exposure: No information found.
Aggravation of Pre-existing Conditions: No information found.

4. First Aid Measures

Inhalation: Not expected to require first aid measures.
Ingestion: If large amounts were swallowed, give water to drink and get medical advice.
Skin Contact: Wash exposed area with soap and water. Get medical advice if irritation develops.
Eye Contact: In case of contact, immediately flush eyes with plenty of water for at least 15 minutes, lifting upper and lower eyelids occasionally. Call a physician if irritation persists.

5. Fire Fighting Measures

Fire: As with most organic solids, fire is possible at elevated temperatures or by contact with an ignition source.
Explosion: Fine dust dispersed in air in sufficient concentrations, and in the presence of an ignition source is a potential dust explosion hazard.
Fire Extinguishing Media: Water spray, dry chemical, alcohol foam, or carbon dioxide.
Special Information: In the event of a fire, wear full protective clothing and NIOSH-approved self-contained breathing apparatus with full facepiece operated in the pressure demand or other positive pressure mode.

6. Accidental Release Measures

Remove all sources of ignition. Ventilate area of leak or spill. Wear appropriate personal protective equipment as specified in Section 8. Spills: Clean up spills in a manner that does not disperse dust into the air. Use non-sparking tools and equipment. Reduce airborne dust and prevent scattering by moistening with water. Pick up spill for recovery or disposal and place in a closed container.

7. Handling and Storage

Keep in a tightly closed container, stored in a cool, dry, ventilated area. Protect against physical damage. Avoid dust formation and control ignition sources. Employ grounding, venting and explosion relief provisions in accord with accepted engineering practices in any process capable of generating dust and/or static electricity. Empty only into inert or non-flammable atmosphere. Emptying contents into a non-inert atmosphere where flammable vapors may be present could cause a flash fire or explosion due to electrostatic discharge.

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MATERIAL SAFETY DATA SHEET (MSDS)**SODIUM PYRUVATE (FOR BIOCHEMISTRY) (PYRUVIC ACID SODIUM SALT)****8. Exposure Controls/Personal Protection**

Airborne Exposure Limits: None established.

Ventilation System: In general, dilution ventilation is a satisfactory health hazard control for this substance. However, if conditions of use create discomfort to the worker, a local exhaust system should

be considered. Personal Respirators (NIOSH Approved): For conditions of use where exposure to dust or mist is apparent and engineering controls are not feasible, a particulate respirator (NIOSH type N95 or better filters) may be worn. If oil particles (e.g. lubricants, cutting fluids, glycerine, etc.) are present, use a NIOSH type R or P filter. For emergencies or instances where the exposure levels are not known, use a full-face positive-pressure, air-supplied respirator. WARNING: Air-purifying respirators do not protect workers in oxygen-deficient atmospheres. Skin Protection: Wear protective gloves and clean body-covering clothing. Eye Protection: Safety glasses.

9. Physical and Chemical Properties

Appearance: White powder. Odor: Odorless. Solubility: Completely soluble in water. Specific Gravity: No information found. pH: 7.0 (10% in water) % Volatiles by volume @ 21C (70F): 0

10. Stability and Reactivity

Stability: Stable under ordinary conditions of use and storage.

Hazardous Decomposition Products: Carbon dioxide and carbon monoxide may form when heated to decomposition.

Hazardous Polymerization: Will not occur.

Incompatibilities: Strong oxidizers. Conditions to Avoid: Heat, incompatibles.

11. Toxicological Information

N/A

12. Ecological Information

Environmental Fate: No information found.

Environmental Toxicity: No information found.

13. Disposal Considerations

Whatever cannot be saved for recovery or recycling should be managed in an appropriate and approved waste disposal facility. Processing, use or contamination of this product may change the waste management options. State and local disposal regulations may differ from federal disposal regulations. Dispose of container and unused contents in accordance with federal, state and local requirements.

14. Transport Information

NON HAZARDOUS FOR AIR, ROAD AND SEA TRANSPORT

15. Regulatory Information

SARA Title III: N/A

Federal Regulatory: N/A

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MATERIAL SAFETY DATA SHEET (MSDS)**SODIUM PYRUVATE (FOR BIOCHEMISTRY) (PYRUVIC ACID SODIUM SALT)****16. Other Information**

NFPA Ratings: Health: 0 Flammability: 0 Reactivity: 0

Label Hazard Warning: As part of good industrial and personal hygiene and safety procedure, avoid all unnecessary exposure to the chemical substance and ensure prompt removal from skin, eyes and clothing.

Label Precautions: None.

Label First Aid: Not applicable.

Product Use: Laboratory Reagent.

In accordance with REACH Regulation (CE) N° 1907/2006 and with CLP Regulation (CE) N° 1272/2008

DISCLAIMER:

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