**SECTION 1 PRODUCT AND COMPANY INFORMATION**

PRODUCT NAME: Potassium Formate  
PRODUCT NUMBER: 2910-1  
CAS NUMBER: 590-29-4  
SYNONYMS: Formic acid potassium salt  
MANUFACTURER: Prochem, Inc.  
826 Roosevelt Road  
Rockford, IL 61109  
PHONE: 815-398-1788  
FAX: 815-398-1810  
TOLL FREE: 800-795-8788  
IN CASE OF TRANSPORTATION EMERGENCY CONTACT CHEM-TREC: 1-800-424-9300

**SECTION 2 HAZARDS IDENTIFICATION**

CLASSIFICATION OF SUBSTANCE OR MIXTURE

Not a hazardous substance according to GHS.

HMIS CLASSIFICATION:

- Health: 0  
- Fire: 0  
- Reactivity Hazard: 0

NFPA RATING:

- Flammability: 0  
- Reactivity Hazard: 0

EYE CONTACT: Avoid contact with eyes.

SKIN CONTACT: May cause allergic skin reaction.

INHALATION: May cause irritation of the respiratory tract.

INGESTION: May be harmful if swallowed.

**SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS**

Formula: $\text{KCO}_2\text{H}$  
Molecular Weight: 84.12

<table>
<thead>
<tr>
<th>CHEMICAL NAME</th>
<th>CAS#</th>
<th>%</th>
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<tbody>
<tr>
<td>Potassium Formate</td>
<td>590-29-4</td>
<td>100</td>
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**SECTION 4 FIRST AID MEASURES**

EYE EXPOSURE: In case of eye contact, rinse immediately with plenty of water

SKIN EXPOSURE: Rinse immediately with plenty of water and seek medical advice.

INHALATION: Remove to fresh air and keep at rest. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Get medical attention if necessary.
SECTION 4  FIRST AID MEASURES (Cont.)

INGESTION: Do NOT induce vomiting. Never give anything by mouth to an unconscious person. If conscious, wash mouth with water. Get medical attention if necessary.

SECTION 5  FIREFIGHTING MEASURES

FLASH POINT: Not available
AUTO IGNITION TEMPERATURE: Not available
EXPLOSION LIMITS: Not available
EXTINGUISHING MEDIUM: Use carbon dioxide, extinguishing powder, or water spray. Fight larger fires with water spray or alcohol resistant foam.
SPECIAL FIRE FIGHTING PROCEDURES: Wear self-contained, approved breathing apparatus and full protective clothing, including eye protection and boots.
HAZARDOUS COMBUSTION AND DECOMPOSITION PRODUCTS: Carbon oxides and potassium oxides.

SECTION 6  ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS: Wear all appropriate equipment when using this material. Ensure adequate ventilation.
ENVIRONMENTAL PRECAUTIONS: Prevent spillage from entering drains or allowing it to be released into the environment.
METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING UP: Sweep up and shovel into suitable container for proper disposal.

SECTION 7  HANDLING AND STORAGE

PRECAUTIONS FOR SAFE HANDLING: Wear appropriate personal protective equipment. Avoid contact with skin and eyes. Use with adequate ventilation. Wash thoroughly after using. Keep container closed when not in use. Avoid formation of dusts and aerosols. Handle under dry protective gas
CONDITIONS FOR SAFE STORAGE: Store in cool, dry, and well-ventilated area. Store under dry inert gas. Strongly hygroscopic. Store away from water, moisture, and oxidizing agents.

SECTION 8  EXPOSURE CONTROLS AND PERSONAL PROTECTION

EXPOSURE CONTROLS: Contains no substances with occupational exposure limit values.
EYE PROTECTION: Wear chemical safety glasses or goggles and face shield
SKIN PROTECTION: Wear nitrile or rubber gloves, and a complete suit protecting against chemicals
VENTILATION: Provide local exhaust, preferably mechanical.
RESPIRATOR: Use an approved respirator
ADDITIONAL PROTECTION: Provide eyewash stations, quick-drench showers and washing facilities accessible to areas of use and handling.

SECTION 9  PHYSICAL AND CHEMICAL PROPERTIES

COLOR AND FORM: Clear to white crystalline powder
ODOR: No data available
ODOR THRESHOLD: No data available
MOLECULAR WEIGHT: 84.12
BOILING POINT: Decomposes
MELTING POINT: 165-168° C
SPECIFIC GRAVITY: 1.91 gm/ml
SOLUBILITY: Soluble

SECTION 10  STABILITY AND REACTIVITY

STABILITY: Stable
HAZARDOUS POLYMERIZATION: Will not occur
CONDITIONS TO AVOID: Reacts with strong oxidizing agents
INCOMPATIBILITY: Water/moisture and oxidizing agents.
DECOMPOSITION PRODUCTS: Carbon oxides and potassium oxides.
SECTION 11  TOXICOLOGICAL DATA

ACUTE TOXICITY: LD50 Oral – mouse – 5,500mg/kg.
CARCINOGENIC EFFECTS: No components of this product present at levels greater than or equal to 0.1% is identified a carcinogen.
MUTAGENIC EFFECTS: Not available
TETRATOCINOGENIC EFFECTS: Not available
CHRONIC TOXICITY: Chronic exposure may cause nausea and vomiting, higher exposure causes unconsciousness.
RTECS: LQ9625000

To the best of our knowledge the toxicological effects of this compound have not been fully investigated.

SECTION 12  ECOLOGICAL DATA

No data available.

SECTION 13  DISPOSAL CONSIDERATIONS

Dispose of in according to local, state, and federal regulations.

SECTION 14  TRANSPORTATION DATA

Not a dangerous good.

SECTION 15  REGULATORY INFORMATION

TSCA: Listed in the TSCA inventory
DSCL (EEC): Listed on the DSCL inventory
SARA 302/304: Not Listed
SARA 311/312: No SARA Hazards
SARA (TITLE 313): Not Listed
CALIFORNIA PROP. 65: Not Listed
WHMIS CANADA: Not Listed
NEW JERSEY RIGHT TO KNOW COMPONENTS: Potassium Formate
PENNSYLVANIA RIGHT TO KNOW COMPONENTS: Potassium Formate

SECTION 16  OTHER INFORMATION

DISCLAIMER: The information herein is believed to be accurate and reliable as of the date compiled. However, Prochem, Inc. makes no representation, warranty, or guarantee of any kind with respect to the information in this document or any use of the product based on the information.
DATE PREPARED: 08/14