



Material Safety Data Sheet

Potassium Formate MSDS

1. SUBSTANCE IDENTIFICATION

- 1.1. Product Name: [Potassium Formate](#)
- 1.2. Description: Potassium Formate is a calcium salt of formic acid manufactured through chemical synthesis.
- 1.3. Chemical Formula: CHKO2
- 1.4. Molecular weight: 84.12
- 1.5. CAS #: 590-29-4
- 1.6. EINECS #: 209-677-9
- 1.7. Manufactured by: Foodchem International Corporation, Shanghai China.
- 1.8. Supplied by: Foodchem International Corporation, Shanghai China.
- 1.9. Usage: In food as drilling mud additive

2. Composition

- 2.1. Potassium Formate: 96%
- 2.2. Hazardous impurities: Negative

3. Physical/Chemical Characteristics

- 3.1. Physical State:
- 3.2. Appearance: White or light green solide crystalline powder
- 3.3. Odor: Odorless
- 3.4. pH: Not available
- 3.5. Melting point/range: 167.5 ° C
- 3.6. Boiling point: Decomposes
- 3.7. Bulk density: 1.908 g/cm³
- 3.8. Solubility: 331 g/100 mL @ 25 ° C

4. Stability/Reactivity

- 4.1. Chemical Stability: Stable under normal temperatures and pressures
- 4.2. Shelf Life: 24 months period
- 4.3. Hazardous decomposition: Carbon monoxide, irritating and toxic fumes and gases, carbon dioxide.
- 4.4. Hazardous polymerization: Will not occur
- 4.5. Incompatible with: Strong oxidizing agents

5. Handling/Storage

- 5.1. Storage: kept in dry, cool, and shaded place with original packaging, avoid moisture, store at room temperature.
- 5.2. Handling precaution: Use with adequate ventilation. Minimize dust generation and accumulation. Avoid contact with eyes, skin, and clothing. Keep container tightly closed. Avoid ingestion and inhalation.

6. Exposure Control

- 6.1. Engineering Controls: Use adequate ventilation to keep airborne concentrations low.
- 6.2. Respiratory protection: NIOSH/MSHA or European Standard EN 149 approved respirator
- 6.3. Eye Protection: Protective eyeglasses or chemical safety goggles
- 6.4. Skin Protection: Wear appropriate protective gloves and clothes to minimize skin contact.
- 6.5. Other: Consult professionals if Potassium Formate need to be handled under some special conditions.

7. Hazards Identification



- 7.1. Hazardous overview: Potassium Formate is not classified as a Dangerous Substance
- 7.2. Contact with eyes: May cause eye irritation.
- 7.3. Contact with skin: May cause skin irritation.
- 7.4. Ingestion: May cause irritation of the digestive tract.
- 7.5. Inhalation: May cause respiratory tract irritation.
- 7.6. Other: Not Applicable

8. First Aid Measures

- 8.1. Contact with eyes: Flush immediately with plenty of water for 15 minutes and seek medical advice
- 8.2. Contact with skin: Wash the affected area with water, remove contaminated clothing and launder before re-use. Seek medical advice if irritation develops or persists.
- 8.3. Ingestion: Rinse mouth thoroughly with water and drink water afterwards.
- 8.4. Inhalation: Remove from exposure, move to fresh air and seek medical advice immediately.

9. Fire and Explosion Data

- 9.1. General information: Non-flammable.
- 9.2. Flash point: Not applicable
- 9.3. Ignition control: Not Applicable
- 9.4. Dust control: Keep the handling area with adequate ventilation
- 9.5. Extinguishing Media: Water spray, dry chemical or carbon dioxide
- 9.6. Spills/Leaks: Vacuum or sweep up material and place into a suitable disposal container

10. Transport Information

- 10.1. No special requirements and no restrictions on transportation by land, sea or air.

11. Ecological Information

- 11.1. Potassium Formate is fully biodegradable and the products of degradation are not toxic.

12. Other Information

- 12.1. This Safety Data Sheet of Potassium Formate is based upon a limited review of Foodchem International Corporation files and standard Toxicological handbooks. We make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall Foodchem International Corporation be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if Foodchem International Corporation has been advised of the possibility of such damages.

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