Potassium formate (Liquid)

Material Safety Data Sheet（MSDS）

Section 1 - Chemical Product and Company Identification

MSDS Name: Potassium formate (liquid)
Synonyms: Formic acid, potassium salt.
Company Identification:

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Section 2 - Composition, Information on Ingredients

Chemical Name: potassium formate(liquid)
Molecular Formula: HCOOK.
Molecular Weight: 84.12.
Ingredients: potassium formate content 74%MIN
CAS No.: 590-29-4
Einecs/Elincs:209-677-9

Section 3 - Hazards Identification

EMERGENCY OVERVIEW
Caution! May cause eye and skin irritation. May cause respiratory and digestive tract irritation. Air sensitive. The toxicological properties of this material have not been fully investigated.
POTENTIAL HEALTH EFFECTS
Eye: May cause eye irritation.
Skin: May cause skin irritation.
Ingestion: May cause irritation of the digestive tract.
Inhalation: May cause respiratory tract irritation.
Chronic: No information found.

Section 4 - First Aid Measures

Eyes: Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid immediately.
Skin: Get medical aid. Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse.
Ingestion: If victim is conscious and alert, give 2-4 cupfuls of milk or water. Never give anything by mouth to an unconscious person. Get medical aid immediately.
Inhalation: Remove from exposure and move to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid.

Section 5 - Fire Fighting Measures

General Information: As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion.
Extinguishing Media: Use water spray, dry chemical, carbon dioxide, or appropriatefoam.
Flash Point: Not available.
Autoignition Temperature: Not available.
Explosion Limits, Lower:N/A
Upper: N/A

Section 6 - Accidental Release Measures

General Information: Use proper personal protective equipment as indicated in Section 8.
Spills/Leaks: Clean up spills immediately, observing precautions in the Protective Equipment section. Sweep up or absorb material, then place into a suitable clean, dry, closed container for disposal. Avoid generating dusty conditions. Provide ventilation.

Section 7 - Handling and Storage

Handling: Wash thoroughly after handling. Remove contaminated clothing and wash before reuse. Use with adequate ventilation. Minimize dust generation and accumulation. Avoid contact with eyes, skin, and clothing. Keep IBC tank / drum tightly closed. Avoid ingestion and inhalation.
Storage: Keep IBC tank / drum closed when not in use. Store in a tightly closed IBC tank / drum. Store in a cool, dry, well-ventilated warehouse away from incompatible substances,Avoid direct sunlight.

Section 8 - Exposure Controls, Personal Protection

Engineering Controls: Use adequate ventilation to keep airborne concentrations low.
Exposure Limits : none listed

Personal Protective Equipment
Eyes: Wear appropriate protective eye glasses or chemical safety goggles .
Skin: Wear appropriate protective gloves to prevent skin exposure.
Clothing: Wear appropriate protective clothing to prevent skin exposure.

Section 9 - Physical and Chemical Properties

Appearance: colorless clear liquid
Odor: Not available.
pH: 10±1.
Vapor Pressure: Not available.
Vapor Density: Not available.
Evaporation Rate: Not available.
Viscosity: Not available.

Boiling Point: Decompose
Decomposition Temperature: Not available.
Specific Gravity/Density:1.57g/cm3
Molecular Formula:CHKO2
Molecular Weight:84.12

Section 10 - Stability and Reactivity

Chemical Stability: Stable under normal temperatures and pressures.
Conditions to Avoid: Incompatible materials, dust generation, exposure to air, strong oxidants.
Incompatibilities with Other Materials: Strong oxidizing agents.
Hazardous Decomposition Products: Carbon monoxide, irritating and toxic fumes and gases, carbon dioxide.
Hazardous Polymerization: Has not been reported

Section 11 - Toxicological Information

LD50/LC50: Oral, mouse: LD50 = 5500 mg/kg;
Carcinogenicity: Not listed by ACGIH, IARC, NTP, or CA Prop 65.
Epidemiology: No information available.
Teratogenicity: No information available.
Reproductive Effects: No information available.
Mutagenicity: No information available.
Neurotoxicity: No information available.
Other Studies: No information available.

Section 12 - Ecological Information

Ecotoxicity: No data available. No information available.
Environmental: No information found.
Physical: Formates may metabolize into formic acid.
Other: No information available.

Section 13 - Disposal Considerations

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification.
RCRA P-Series: None listed.
RCRA U-Series: None listed.

Section 14 - Transport Information

IATA : Not regulated as a hazardous material. .
IMO : Not regulated as a hazardous material.

RID/ADR: Not regulated as a hazardous material.

Section 15 - Regulatory Information

No information available.

Section 16 - Additional Information

MSDS Creation Date: May 16,201