



WEST BENGAL CHEMICAL INDUSTRIES LIMITED

145/1, Jessore Road, Lake Town,

Kolkata – 700 089, India.

Phone: +9133 4025 1700 Fax: +9133 2574 7410

Email: wbcil@wbcil.com

Website: www.wbcil.com

Section 1 - Chemical Product and Company Identification

MSDS Name: Potassium Acetate

Product Code : PAEIH99

Company Identification:

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Section 2 - Composition / Information on Ingredients

| Ingredient Name | CAS Number | % wt | Molecular Wt. | Molecular Formula |
|-------------------|------------|--------------|---------------|--|
| Potassium Acetate | 127-08-2 | 99.0 – 100.5 | 98.14 g/mol | C ₂ H ₃ O ₂ K |

Section 3 - Hazards Identification

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

| | | |
|---|---|--|
| POTENTIAL ACUTE HEALTH EFFECTS | : | Slightly hazardous in case of skin contact (irritant), of eye contact (irritant), of ingestion, of inhalation. |
| POTENTIAL CHRONIC HEALTH EFFECTS | : | Hazardous in case of skin contact (irritant). |
| CARCINOGENIC EFFECTS | : | No data available. |
| MUTAGENIC EFFECTS | : | No data available. |
| TERATOGENIC EFFECTS | : | No data available. |
| DEVELOPMENTAL TOXICITY | : | No data available. |
| H302 (10%) | : | Harmful if swallowed [Warning Acute toxicity, oral] |
| H315 (90%) | : | Causes skin irritation [Warning Skin corrosion/irritation] |
| H319 (100%) | : | Causes serious eye irritation [Warning Serious eye damage/eye irritation] |
| H335 (93.33%) | : | May cause respiratory irritation [Warning Specific target organ toxicity, single exposure; Respiratory tract irritation] |

Precautionary Statement Codes - P261, P264, P264+P265, P270, P271, P280, P301+P317, P302+P352, P304+P340, P305+P351+P338, P319, P321, P330, P332+P317, P337+P317, P362+P364, P403+P233, P405, and P501

Acute Tox. 4 (10%)

Skin Irrit. 2 (90%)

Eye Irrit. 2 (100%)

STOT SE 3 (93.33%)





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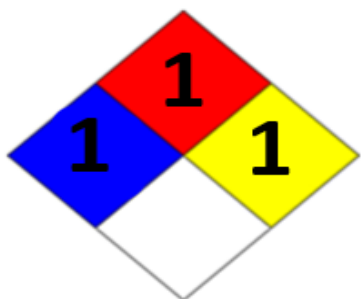
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Section 3 - Hazards Identification



NFPA SCALE (0-4)

| | |
|---------------------|---|
| Health | 1 |
| Flammability | 1 |
| Physical Hazard | 1 |
| Personal protection | X |

HMIS RATINGS (0-4)

Section 4 - First Aid Measures

| | | |
|--|---|---|
| Eye Contact | : | Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention. |
| Skin Contact | : | Wash off immediately with plenty of water for at least 15 minutes. Get medical attention immediately if symptoms occur. |
| Inhalation | : | Remove to fresh air. If breathing is difficult, give oxygen. Get medical attention immediately if symptoms occur. |
| Ingestion | : | Do NOT induce vomiting. Get medical attention. |
| Most important symptoms and effects | : | No information available. |
| Notes to Physician | : | Treat symptomatically |





Section 5 - Fire-Fighting Measures

| | | |
|--|---------------------|---|
| Suitable Extinguishing Media | : | Water spray, carbon dioxide (CO ₂), dry chemical, alcohol-resistant foam. |
| Unsuitable Extinguishing Media | : | No information available |
| Flash Point Method | | Not applicable |
| Autoignition Temperature | | No information available |
| Explosion Limits | | |
| Upper | | No data available |
| Lower | | No data available |
| Sensitivity to Mechanical Impact | | No information available |
| Sensitivity to Static Discharge | | No information available |
| Specific Hazards Arising from the Chemical | | |
| Dust can form an explosive mixture with air. Keep product and empty container away from heat and sources of ignition. | | |
| Hazardous Combustion Products | | |
| Carbon monoxide (CO). Carbon dioxide (CO ₂). Potassium oxides. | | |
| Protective Equipment and Precautions for Firefighters | | |
| As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. | | |
| NFPA | | |
| Health | Flammability | Instability |
| 1 | 1 | 1 |
| | | Physical hazards |
| | | N/A |

Section 6 - Accidental Release Measures

| | | |
|---|---|--|
| PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT & EMERGENCY PROCEDURES | : | Ensure adequate ventilation. Use personal protective equipment as required. Avoid dust formation. |
| ENVIRONMENTAL PRECAUTIONS | : | Should not be released into the environment. See Section 12 for additional Ecological Information. |
| METHODS AND MATERIALS FOR CONTAINMENT & CLEANING UP | : | Sweep up and shovel into suitable containers for disposal. Avoid dust formation. |

Section 7 - Handling and Storage

| | | |
|---|---|--|
| PRECAUTIONS FOR SAFE HANDLING | : | Wear personal protective equipment/face protection. Ensure adequate ventilation. Avoid contact with skin, eyes or clothing. Avoid ingestion and inhalation. Avoid dust formation. Protect from moisture. |
| CONDITIONS FOR SAFE STORAGE INCLUDING ANY INCOMPATIBILITIES | : | Keep containers tightly closed in a dry, cool and well-ventilated place. Incompatible Materials. Strong oxidizing agents. |





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Section 7 - Handling and Storage

Storage conditions
Tightly closed. Dry.
Hygroscopic.
Storage class
Storage class (TRGS 510): 13: Non-Combustible Solids

Section 8 - Exposure Controls / Personal Protection

Exposure Guidelines : This product does not contain any hazardous materials with occupational exposure limits established by the region-specific regulatory bodies.

Engineering Measures : None under normal use conditions.

Personal Protective Equipment

Eye/face Protection : Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

Skin and body protection : Wear appropriate protective gloves and clothing to prevent skin exposure.

Skin protection : This recommendation applies only to the product stated in the safety data sheet, supplied by us and for the designated use. When dissolving in or mixing with other substances and under conditions deviating from those stated in EN374 please contact the supplier of CE-approved gloves (e.g. KCL GmbH, D-36124 Eichenzell, Internet: www.kcl.de).

Full contact

Material : Nitrile rubber

Minimum layer thickness : 0.11 mm

Break through time : 480 min

Material tested : KCL 741 Dermatril[®] L

This recommendation applies only to the product stated in the safety data sheet, supplied by us and for the designated use. When dissolving in or mixing with other substances and under conditions deviating from those stated in EN374 please contact the supplier of CE-approved gloves (e.g. KCL GmbH, D-36124 Eichenzell, Internet: www.kcl.de).



**Section 8 - Exposure Controls / Personal Protection**

| | |
|---|--|
| Splash contact | |
| Material | : Nitrile rubber |
| Minimum layer thickness | : 0.11 mm |
| Break through time | : 480 min |
| Material tested | : KCL 741 Dermatril [®] L |
| Respiratory protection | : Required when dusts are generated. |
| <p>Our recommendations on filtering respiratory protection are based on the following standards: DIN EN 143, DIN 14387 and other accompanying standards relating to the used respiratory protection system. Recommended Filter type: Filter type P1</p> <p>The entrepreneur has to ensure that maintenance, cleaning and testing of respiratory protective devices are carried out according to the instructions of the producer.</p> <p>These measures have to be properly documented.</p> | |
| Respiratory Protection | : No protective equipment is needed under normal use conditions. |
| Hygiene Measures | : Handle in accordance with good industrial hygiene and safety practice. |

Section 9 - Physical and Chemical Properties

| | |
|------------------------------|--|
| Appearance form | : Crystalline powder |
| Color | : White |
| Taste | : Saline and slightly alkaline test |
| Odour | : Odourless or faint acetous odour |
| Solubility | : Very soluble in water, freely soluble in alcohol |
| pH (1 in 20 solution) | : 7.5 – 8.5 |
| Molecular weight | : 98.14 g/mol. |
| Melting Point/Range | : 292 °C / 557.6 °F |
| Boiling Point/Range | : 392 °C |
| Bulk Density | : ~1.8 g/cm ³ |
| Density | : ~1.6 g/cm ³ |
| Vapor pressure | : < 0.0000001 hPa at 25 °C / 1.37E-008 mm Hg at 25°C |
| Density | : 1.57 g/cm ³ at 25 °C |
| Water solubility | : 98.2 g/l at 20 °C - completely soluble |





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Section 9 - Physical and Chemical Properties

| | | |
|---|---|-----------------------|
| Auto-ignition temperature | : | >410 °C (ECHA) |
| Partition coefficient n-octanol/water (log value) | : | 3.72 (ECHA) |
| Soil organic carbon/water (log KOC) 0 (ECHA) | | |
| Bulk density | : | 500 kg/m ³ |
| VISCOSITY | : | 6.5 P @ 20 C |
| Solubility in water, at 20 °C | : | 256 g/100ml |
| pH | : | 7.5-9.0 |
| pKa | : | 4.756 |
| Other safety information | : | No data available |

Section 10 - Stability and Reactivity

| | | |
|--|---|---|
| Reactive Hazard | : | None known, based on information available |
| Stability | : | Hygroscopic. Absorbs moisture from air and becomes liquid. |
| Conditions to Avoid | : | Incompatible products. Excess heat. Avoid dust formation. Exposure to moist air or water. |
| Incompatible Materials | : | Strong oxidizing agents |
| Hazardous Decomposition Products | : | Carbon monoxide (CO), Carbon dioxide (CO ₂), Potassium oxides |
| Hazardous Polymerization Incompatibilities | : | Hazardous polymerization does not occur. |
| Hazardous Reactions | : | None under normal processing. |

Section 11 - Toxicological Information

Acute Toxicity

Product Information

Component Information

| Component | LD50 Oral | LD50 Dermal | LC50 Inhalation |
|-------------------|-------------------------|-----------------------------|-----------------|
| Potassium acetate | LD50 = 3250 mg/kg (Rat) | LD50 > 20000 mg/kg (Rabbit) | Not listed |

Toxicologically Synergistic No information available

Products

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Irritation No information available

Sensitization No information available

Carcinogenicity The table below indicates whether each agency has listed any ingredient as a carcinogen.

| Component | CAS No | IARC | NTP | ACGIH | OSHA | Mexico |
|-------------------|----------|------------|------------|------------|------------|------------|
| Potassium acetate | 127-08-2 | Not listed | Not listed | Not listed | Not listed | Not listed |

Mutagenic Effects No information available





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Section 11 - Toxicological Information

| | |
|--|---------------------------|
| Reproductive Effects | No information available. |
| Developmental Effects | No information available. |
| Teratogenicity | No information available. |
| STOT - single exposure | None known |
| STOT - repeated exposure | None known |
| Aspiration hazard | No information available |
| Symptoms / effects, both acute and delayed | No information available |
| Endocrine Disruptor Information | No information available |
| Other Adverse Effects | |
| See actual entry in RTECS for complete information. The toxicological properties have not been fully investigated. | |

Section 12 - Ecological Information

| Ecotoxicity | | | | |
|---|-------------------------|--|-----------------|-------------------|
| Component | Freshwater Algae | Freshwater Fish | Microtox | Water Flea |
| Potassium acetate | Not listed | LC50: = 6800 mg/L, 96h semi-static (Oncorhynchus mykiss) | Not listed | Not listed |
| Persistence and Degradability | : | Soluble in water Persistence is unlikely based on information available. | | |
| Bioaccumulation/ Accumulation | : | No information available. | | |
| Mobility | : | Will likely be mobile in the environment due to its water solubility. | | |
| short-term toxicity to zebrafish (Danio rerio) | : | EC50 > 496.35 mg/L | | |
| short-term toxicity to water fleas (Daphnia magna) | : | EC50 > 459.5 mg/L. | | |
| toxicity to aquatic algae, specifically Skeletonema costatum | : | EC50 > 500 mg/L | | |
| Oral Toxicity- LD50 in male rats | : | 3.25 (2.48-4.26) g/kg | | |
| Inhalation Toxicity | : | Estimated LC50: Higher than 6.95 mg/L | | |
| Dermal Toxicity | : | Estimated LD50: Greater than 33820.97 mg/kg bw | | |
| Process of degradability | | | | |
| Process | Degradation rate | Time | | |
| biotic/abiotic | 49 % | 5 d | | |
| DOC removal | 99 % | 28 d | | |





Section 13 - Disposal Considerations

Waste Disposal Methods:

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

Section 14 - Transport Information

DOT Classification : Not a DOT controlled material
 Air transport Goods : Nonhazardous/non dangerous as per IATA DGR.
 Special Provision for Transport : Not applicable
 IATA Specification Non-dangerous, non-hazardous

DOT (Pictograms)

AS PER IATA REGULATION SAFE FOR CARRAGE, NON-HAZARDOUS AND NON-RESTRICTED.

NO SPECIAL LABELLING OR TRANSPORT MEASURE HAVE BEEN IDENTIFIED.

THIS IS NOT REGULATED AS PER IATA REGULATION



Section 15 - Regulatory Information

United States of America Inventory

| Component | CAS No | TSCA | TSCA Inventory notification - Active-Inactive | TSCA - EPA Regulatory Flags |
|-------------------|----------|------|---|-----------------------------|
| Potassium acetate | 127-08-2 | X | ACTIVE | - |

Legend:

TSCA US EPA (TSCA) - Toxic Substances Control Act, (40 CFR Part 710)

X - Listed

'-' - Not Listed

TSCA 12(b) - Notices of Export Not applicable

International Inventories

Canada (DSL/NDSL), Europe (EINECS/ELINCS/NLP), Philippines (PICCS), Japan (ENCs), Japan (ISHL), Australia (AICS), China (IECSC), Korea (KECL).

| Component | CAS No | DSL | NDSL | EINECS | PICCS | ENCs | ISHL | AICS | IECSC | KECL |
|-------------------|----------|-----|------|-----------|-------|------|------|------|-------|----------|
| Potassium acetate | 127-08-2 | X | - | 204-822-2 | X | X | X | X | X | KE-29069 |

KECL - NIER number or KE number (<http://ncis.nier.go.kr/en/main.do>)

U.S. Federal Regulations

SARA 313

Not applicable

SARA 311/312 Hazard Categories

See section 2 for more information





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Section 15 - Regulatory Information

| | |
|---|---|
| CWA (Clean Water Act) | Not applicable |
| Clean Air Act | Not applicable |
| OSHA - Occupational Safety and Health Administration | Not applicable |
| CERCLA | Not applicable |
| California Proposition 65 | This product does not contain any Proposition 65 chemicals. |
| U.S. State Right-to-Know Regulations | Not applicable |
| U.S. Department of Transportation | |
| Reportable Quantity (RQ): | N |
| DOT Marine Pollutant | N |
| DOT Severe Marine Pollutant | N |
| U.S. Department of Homeland Security | This product does not contain any DHS chemicals. |
| Other International Regulations | |
| Mexico - Grade | Slight risk, Grade 1 |
| Authorization/Restrictions according to EU REACH | |
| Safety, health and environmental regulations/legislation specific for the substance or mixture | |

| Component | CAS No | OECD HPV | Persistent Organic Pollutant | Ozone Depletion Potential | Restriction of Hazardous Substances (RoHS) |
|-------------------|----------|----------|------------------------------|---------------------------|--|
| Potassium acetate | 127-08-2 | Listed | Not applicable | Not applicable | Not applicable |

| Component | CAS No | Seveso III Directive (2012/18/EC) - Qualifying Quantities for Major Accident Notification | Seveso III Directive (2012/18/EC) - Qualifying Quantities for Safety Report Requirements | Rotterdam Convention (PIC) | Basel Convention (Hazardous Waste) |
|-------------------|----------|---|--|----------------------------|------------------------------------|
| Potassium acetate | 127-08-2 | Not applicable | Not applicable | Not applicable | Not applicable |

Section 16 - Other Information

Disclaimer: This material safety data sheet is provided as an information resource only. WEST BENGAL CHEMICAL INDUSTRIES LIMITED believes the information herein is accurate and compiled from reliable sources. It is the responsibility of the user to verify its validity. The buyer assumes all responsibility of using and handling the product in accordance with federal, state, and local regulations.

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 Revision Date: July, 2025

Revision No.: 02

