

GELEST, INC.

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MATERIAL SAFETY
DATA SHEET

EMERGENCY TELEPHONE
CHEMTREC: 1-800-424-9300

NAME USED ON LABEL: **POTASSIUM 2,2,6,6-TETRAMETHYLHEPTANEDIONATE** - AKP654
CHEMICAL NAME: POTASSIUM 2,2,6,6-TETRAMETHYLHEPTANEDIONATE
SYNONYMS: POTASSIUM TMHD. POTASSIUM DIPIVALOYLMETHANE
CHEMICAL FAMILY: METAL DIKETONATE
FORMULA: C₁₁H₁₉O₂K
HMIS CODES HEALTH: 2 FLAMMABILITY: 2 REACTIVITY:1

INGREDIENTS

| IDENTITY | CAS NO. | % | TLV | OSHA PEL |
|---|------------|------|-----|-----------------|
| POTASSIUM 2,2,6,6-TETRAMETHYLHEPTANEDIONATE | 22441-14-1 | >95% | | not established |

PHYSICAL DATA

| | |
|---|--------------------------------|
| Boiling Point: NA | Melting Point: not determined |
| Specific Gravity: not determined | Vapor Pressure: not determined |
| Vapor Density, air =1: NA | Solubility in water: reacts |
| % volatiles: <3 | Evaporation rate: NA |
| Molecular Weight: 222.37 | Other: NA |
| Appearance & Color: Off-white to light- | brown powder. |

FIRE & EXPLOSION DATA

Flash Point, COC: NA Autoignition Temp.: not determined
Flammability Limits- LEL: NA UEL: NA

Extinguishing Media: Dry chemical extinguisher, dry soda ash, or dry sodium chloride.

Special Fire Fighting Procedures: Protect against caustic dust, smoke and water. Wear pressure demand self-contained breathing apparatus with full facepiece and full protective clothing.

Unusual Fire and Explosion Hazards: Irritating fumes and caustic vapors may develop when material is exposed to elevated temperatures or open flame.

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ENVIRONMENTAL INFORMATION

Abbreviations: ND: Not Determined, No Data; NA: Not Applicable; LD: Lethal Dose; LC: Lethal Concentration; H: hour; °: °C unless otherwise stated; mm: millimeters Hg, torr; PEL: permissible exposure level; TWA: time weighted average; TLV: threshold limit value; HMIS: Hazardous Material information System; CAS No.: Chemical Abstract Service Registration Number
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Spill response: Ventilate area. Eliminate ignition sources. Scoop material into a dry metal container and cover loosely.

Recommended disposal: Incinerate. Follow all chemical pollution control regulations.

HEALTH HAZARD DATA

Eye Contact: Potassium tetramethylheptanedionate cause immediate or delayed burns to the eyes.

Skin contact: May cause irritation and burns.

Inhalation: Inhalation will cause sneezing, irritation and burns.

Oral Toxicity: not determined

Inhalation Toxicity: not determined

Eye Irritation: not determined

SUGGESTED FIRST AID

EYES: In case of contact, immediately flush eyes with flowing water for at least 15 minutes, holding eyes open. Get medical attention.

SKIN: Immediately shake or brush off any loose material, then flush with water for at least fifteen minutes.

INHALATION: Move exposed individual to fresh air. Administer oxygen if needed. Call a physician.

INGESTION: Never give fluids or induce vomiting if patient is unconscious or having convulsions.

REACTIVITY DATA

Stability: Stable under nitrogen or argon in sealed containers.

Conditions to avoid: Material decomposes slowly in contact with moist air and rapidly in contact with water. Avoid contact with moist air, water, acids, alcohols, ketones, esters, carbon dioxide, halogens.

Hazardous decomposition products: Potassium hydroxide and caustic organic vapors.

SPECIAL PROTECTION INFORMATION

Ventilation: Local exhaust is required. Mechanical is recommended.

Respiratory Protection: If exposure exceeds TLV, a NIOSH approved particulate filter-type respirator should be worn.

Eye and Face Protection: Chemical worker's goggles. Do not wear contact lenses.

Other Clothing and Equipment: Rubber, neoprene or nitrile gloves. An eyewash and emergency shower should be available. Launder clothing before reuse.

OTHER PRECAUTIONS

For research use only.

Storage and Handling: Store under dry nitrogen or argon in sealed containers.

TRANSPORTATION

DOT SHIPPING NAME: NONE REQUIRED

DOT HAZARD CLASS: NONE REQUIRED

DOT LABELS: NONE REQUIRED

DOT ID No: NONE REQUIRED

Prepared by safety and environmental affairs

ISSUE DATE AKP654: 1/28/03

SUPERSEDES: 2/13/92

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