

# GELEST, INC.

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MATERIAL SAFETY  
DATA SHEET

EMERGENCY TELEPHONE  
CHEMTREC: 1-800-424-9300

NAME USED ON LABEL: **POTASSIUM PENTANEDIONATE - AKP650**

CHEMICAL NAME: POTASSIUM PENTANEDIONATE, hemihydrate

SYNONYMS: POTASSIUM ACETYLACETONATE

CHEMICAL FAMILY: METAL DIKETONATE

FORMULA:  $C_5H_7O_2K \cdot 1/2H_2O$

HMIS CODES HEALTH: 3 FLAMMABILITY: 2 REACTIVITY: 0

## INGREDIENTS

IDENTITY	CAS NO.	%	TLV	OSHA PEL
POTASSIUM PENTANEDIONATE, hemihydrate	57402-46-7	>95%	not established	

## PHYSICAL DATA

Boiling Point: NA

Specific Gravity: not determined

Vapor Density, air =1: NA

% volatiles: <3

Molecular Weight: 147.22

Appearance & Color: Off-white to light- brown powder.

Melting Point: 250°-decomposes

Vapor Pressure: not determined

Solubility in water: soluble

Evaporation rate: NA

Other: NA

## 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.

-1-(AKP650)

## ENVIRONMENTAL INFORMATION

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 pentanedionate may cause immediate or delayed burns to the eyes.

Skin contact: May cause irritation and caustic burns.

Inhalation: Inhalation will cause sneezing, irritation and burns.

Oral Toxicity: not determined May liberate pentanedione which is a possible mutagen.

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.

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:CHEMICALS NOI  
DOT HAZARD CLASS: NONE REQUIRED  
DOT LABELS: NONE REQUIRED  
DOT ID No: NONE REQUIRED

Prepared by safety and environmental affairs      ISSUE DATE AKP650: 1/28/03  
SUPERSEDES: 7/11/01

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