

**GELEST, INC.**

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MATERIAL SAFETY  
DATA SHEET

EMERGENCY TELEPHONE  
CHEMTREC: 1-800-424-9300

NAME USED ON LABEL: **SODIUM MALEATE - CXSO049**

CHEMICAL NAME: SODIUM MALEATE

SYNONYMS: 2-BUTENEDIOIC ACID, DISODIUM SALT

CHEMICAL FAMILY: ORGANIC ACID SALT

FORMULA:  $C_4H_2O_4Na_2 \cdot H_2O$

HMIS CODES HEALTH: 1 FLAMMABILITY: 1 REACTIVITY: 0

**INGREDIENTS**

IDENTITY	CAS NO.	%	TLV	OSHA PEL
SODIUM MALEATE	371-47-1	>95	not established	
	(OSHA PEL, nuisance dust: 15mg/m <sup>3</sup> )			

**PHYSICAL DATA**

Boiling Point: NA  
Specific Gravity: >1  
Vapor Density: NA  
% volatiles: <1  
Molecular Weight: 160.04  
Appearance & Color: White powder

Melting Point: >250°  
Vapor Pressure, 20°: not determined  
Solubility in water: soluble  
Evaporation rate: NA  
Other: NA

**FIRE & EXPLOSION DATA**

Flash Point, COC: NA Autoignition Temp.: NA  
Flammability Limits- LEL: NA UEL: NA

Extinguishing Media: Water spray, foam, carbon dioxide, dry chemical.

Special Fire Fighting Procedures: Avoid eye and skin contact. Do not breathe fumes or inhale vapors.

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

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## ENVIRONMENTAL INFORMATION

Spill response: Sweep material and transfer to a suitable container for disposal.

Recommended Disposal: Dispose of as solid waste, alternately incinerate as admixture with fuel equipped with scrubber. Follow all chemical pollution control regulations.

## HEALTH HAZARD DATA

Eye Contact: Will cause immediate or delayed severe eye irritation.

Skin contact: May produce mild irritation or contact dermatitis. Prompt and thorough washing with soap and water will reduce or eliminate potential dermal effects. By analogy, potential allergic sensitization may occur on exposure to dust.

Inhalation: Inhalation of particles will irritate the respiratory tract.

Ingestion: Moderately toxic. Systemic effects include hypermotility, diarrhea, nausea or vomiting.

Oral Toxicity- rat, LD50: 3380mg/kg  
Chronic Toxicity: Not determined

### SUGGESTED FIRST AID

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

SKIN: Flush with water, then wash with soap and water.

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. Get medical attention.

## REACTIVITY DATA

Stability: Stable in sealed containers.

Conditions to avoid: Strong oxidizing agents, peroxides.

Hazardous decomposition products: Organic acid vapors and sodium oxide fumes.

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## SPECIAL PROTECTION INFORMATION

Ventilation: Local exhaust is required. Mechanical is recommended.

Respiratory Protection: If exposure exceeds TLV, NIOSH approved dust and mist respirator.

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 and industrial use only.

Storage and Handling: Store in sealed containers.

## TRANSPORTATION

DOT SHIPPING NAME: CHEMICALS NOI

DOT HAZARD CLASS: None required

DOT LABEL: None required

DOT ID No: None required

Prepared by safety and environmental affairs

ISSUE DATE CXSO049: 1/20/09

SUPERSEDES: none

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