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Product: **Gluconodeltalactone, Sodium Benzoate Preservative**

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<b>MATERIAL</b>	<b>DATE ISSUED</b>	<b>DOT HAZARD CLASSIFICATION</b>
Gluconodeltalactone, Sodium Benzoate Preservative	03/29/05	Revised Non-hazardous
<b>CAS NO. Mixture</b>	<b>SUPERCEDES</b>	<b>DOT SHIPPING NAME</b>
	12/17/04	Not regulated
<b>FORMULA Mixture</b>		<b>DOT LABEL</b> None

\*\*\*\*\* I - INGREDIENTS \*\*\*\*\*

	APPROXIMATE WEIGHT %	TWA/TLV
Glucono Delta Lactone (CAS No. 90-80-2)	74.25	None established
Sodium Benzoate (CAS No. 532-32-1)	24.75	None established
Calcium gluconate (CAS No. 299-28-5)	1.0	None established

\*\*\*\*\* II - PHYSICAL AND CHEMICAL PROPERTIES \*\*\*\*\*

<b>APPEARANCE</b> white powder	<b>pH</b> Not known
<b>VISCOSITY</b> Not applicable	<b>ODOR</b> Odorless
<b>BOILING POINT</b> Not applicable	<b>MELTING OR FREEZING POINT</b> Not known
<b>VAPOR DENSITY (Air=1)</b> Not applicable	<b>VAPOR PRESSURE (mm Hg)</b> Not applicable
<b>PERCENT VOLATILE (by Weight)</b> Not applicable	<b>SOLUBILITY IN WATER</b> Soluble
<b>EVAPORATION RATE (Butyl Acetate=1)</b> Not applicable	<b>SPECIFIC GRAVITY (WATER = 1)</b> Not known

\*\*\*\*\* III - FIRE AND EXPLOSION INFORMATION \*\*\*\*\*

<b>FLASH POINT</b> >200°F	<b>AUTO IGNITION TEMPERATURE</b> Not known
<b>LOWER EXPLOSION LIMIT (%)</b> Not applicable	<b>UPPER EXPLOSION LIMIT (%)</b> Not applicable
<b>EXTINGUISHING MEDIA</b>	<b>ALCOHOL FOAM</b> CO <sub>2</sub> X
<b>FOAM X</b>	<b>WATER X</b>
<b>DRY CHEMICAL</b>	<b>OTHER</b>

**SPECIAL FIRE FIGHTING PROCEDURES:**  
Wear NIOSH approved self-contained breathing apparatus and protective clothing. Cool fire-exposed containers with water spray.

**UNUSUAL FIRE AND EXPLOSION HAZARDS:**  
Products of combustion are toxic.





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\*\*\*\*\* V - REACTIVITY INFORMATION (continued)\*\*\*\*\*

HAZARDOUS POLYMERIZATION CONDITIONS TO AVOID

MAY WILL NOT X None known
OCCUR OCCUR

INCOMPATIBILITY (MATERIALS TO AVOID)

WATER OTHER X Strong oxidizing agents

\*\*\*\*\* VI - SPILL AND DISPOSAL INFORMATION \*\*\*\*\*

STEPS TO BE TAKEN IN CASE OF MATERIAL SPILL OR RELEASE

CAUTION! Wear appropriate protective equipment and respiratory protection where dusts or airborne particulates of unknown concentrations may be generated (selfcontained breathing apparatus preferred for large spills).

Shovel spills into appropriate containers for recovery or disposal. Wet residue with water and absorb with inert material (sand, earth, etc) and transfer into appropriate containers for recovery or disposal. Keep spill out of sewers and open bodies of water.

WASTE DISPOSAL METHODS

Dispose of in compliance with all Federal, state and local laws and regulations. Incineration is the preferred method.

\*\*\*\*\* VII - PERSONAL PROTECTION INFORMATION \*\*\*\*\*

ENGINEERING CONTROLS

In processes where dusts or airborne particulates may be generated, proper ventilation must be provided in accordance with good ventilation practices.

RESPIRATORY PROTECTION

In processes where dusts or airborne particulates may be generated, a NIOSH approved respirator is advised in the absence of proper environmental controls.

PROTECTIVE GLOVES

No gloves are required, provided that normal industrial hygiene practices are observed.

EYE PROTECTION

No eye protection is required, provided that normal industrial hygiene practices are observed.



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\*\*\*\*\* VII - PERSONAL PROTECTION INFORMATION \*\*\*\*\*

OTHER PROTECTIVE EQUIPMENT

No additional protection is needed, provided that normal industrial hygiene practices are observed.

\*\*\*\*\* VIII - STORAGE AND HANDLING \*\*\*\*\*

PRECAUTIONS FOR STORAGE AND HANDLING:

Keep containers tightly closed when not in use. To maintain product quality, do not store in heat or direct sunlight.

\*\*\*\*\* IX - TOXICOLOGY INFORMATION \*\*\*\*\*

The toxicity information is available for this material.

\*\*\*\*\* X - MISCELLANEOUS AND REGULATORY INFORMATION \*\*\*\*\*

FEDERAL LEVEL REGULATIONS:

TOXIC SUBSTANCES CONTROL ACT (TSCA INVENTORY) STATUS:

The components of this product are currently listed on the EPA TSCA 8(b) inventory.

TSCA Section 12(b) Export Notification

Components present in this product which, if exported, could require either annual or one-time reporting under this regulation are as follows:

Chemical Name	CAS Number	Typical Maximum Concentration
None - exempt		

CERCLA (Comprehensive Environmental Response, Compensation and Liability Act of 1980 requires notification of the National Response Center (Telephone 800-424-8802) in the event of a release of quantities of the following hazardous materials contained in this product, if the release is equal to or greater than the Reportable Quantities (RQs) listed in 40 CFR 302.4:

Chemical Name	CAS Number	Typical Maximum Concentration
None known		



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\*\*\*\*\* X - MISCELLANEOUS AND REGULATORY INFORMATION (continued) \*\*\*\*\* FEDERAL LEVEL REGULATIONS (continued):

SARA Title III, Sections 302/304 (Superfund Amendments and Reauthorization act of 1986) - This act requires emergency planning, including agency notification, for possible release of the following components of this material, based upon the Threshold Planning Quantities (TPQs) and release Reportable Quantities (Rqs) listed for the Components in 40 CFR 355:

Chemical Name	CAS Number	Typical Maximum Concentration
None known		

SARA Title III Sections 311/312 - This act requires reporting under the Community Right-to-Know provisions due to the inclusion of the following components of this material in one or more of the five hazard categories listed in 40 CFR 370:

Chemical Name	CAS Number	Hazard *) Concentration
None known		

\*) The five hazard categories are as follows: F=FIRE HAZARD; S= SUDDEN RELEASE OF PRESSURE; R=REACTIVE; A=IMMEDIATE (ACUTE) HEALTH HAZARD; C=DELAYED (CHRONIC) HEALTH HAZARD

SARA Title III Section 313 - This act requires submission of annual reports of the releases of the following components of this material if the threshold reportin quantities as listed in 40 CFR 372, are met or exceeded:

Chemical Name	CAS Number	Typical Maximum Concentration
None known		

STATE RIGHT-TO-KNOW REGULATIONS:

CALIFORNIA PROPOSITION 65 - Components present in this material which the State of California has found to cause cancer, birth defects or other reproductive harm are as follows:

Maximum Chemical Name	CAS Number	Typical Concentration
None known		

MASSACHUSETTS Right-to-Know - The following components of this material are included in the Massachusetts Substance List and are present at or above reportable levels:



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Maximum Chemical Name	CAS Number	Typical Concentration
None known		

\*\*\*\*\* X - MISCELLANEOUS AND REGULATORY INFORMATION (continued) \*\*\*\*\*

STATE RIGHT-TO-KNOW REGULATIONS:

MICHIGAN Critical Materials - The following components of this material are included in the Michigan Critical Materials List:

Chemical Name	CAS Number
None known	

NEW JERSEY Right-to-Know - The following components of this material are included in the New Jersey Hazardous Substance List and are present at or above reportable levels:

Maximum Chemical Name	CAS Number	Typical Concentration
None known		

PENNSYLVANIA Right-to-Know - The following components of this material are included in the Pennsylvania Hazardous Substance List and are present at or above reportable levels:

Maximum Chemical Name	CAS Number	Typical Concentration
None known		

Disclaimer

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