

Material Safety Data Sheet

I. GENERAL INFORMATION

<u>TRADE NAME</u> SHIELD® Granules Dry	<u>CHEMICAL FAMILY</u> Acids
<u>PROPER DOT SHIPPING NAME</u> None	<u>DOT HAZARD CLASSIFICATION</u> N/A
<u>MANUFACTURER</u> Kemin Industries, Inc. for Kemin Foods, L.C.	<u>MANUFACTURER PHONE NUMBER</u> (515) 266-2111 / (515) 883-1180
<u>ADDRESS</u> 2100 Maury Street	<u>CITY/STATE/ZIP</u> Des Moines, Iowa 50317

II. INGREDIENTS

PRINCIPAL COMPONENTS	PERCENT	THRESHOLD LIMIT VALUE
Calcium Propionate	N/A	N/A
	N/A	N/A
	N/A	N/A
	N/A	N/A
	N/A	N/A
	N/A	N/A
	N/A	N/A
	N/A	N/A
	N/A	N/A
	N/A	N/A
	N/A	N/A

III. PHYSICAL DATA

<u>APPEARANCE & ODOR:</u> An off-white powder	
<u>BOILING POINT:</u> N/A	<u>SOLUBILITY IN WATER:</u> N/A
<u>VAPOR PRESSURE:</u> N/A	<u>BULK DENSITY:</u> N/A
<u>VAPOR DENSITY (Air = 1):</u> N/A	<u>PERCENT VOLATILE:</u> N/A
<u>EVAPORATION RATE (=1):</u> N/A	<u>pH:</u> 6.5-10.0

IV. FIRE & EXPLOSION HAZARD DATA

<u>FLASH POINT (TEST METHOD):</u> (° F) Tag Closed Cup ASTM D56-79		
<u>FLAMMABLE LIMITS:</u>	<u>LEL:</u> N/A	<u>UEL:</u> N/A
<u>EXTINGUISHING MEDIA:</u> None		
<u>SPECIAL FIRE FIGHTING PROCEDURES:</u> None		
<u>UNUSUAL FIRE & EXPLOSION HAZARDS:</u> None		

V. HEALTH HAZARD DATA

<u>EYE CONTACT:</u>	Flush eyes with water at least 15 minutes. Consult a physician.
<u>SKIN CONTACT:</u>	Wash with water.
<u>INHALATION:</u>	Handle in well ventilated area. Remove to fresh air.
<u>INGESTION:</u>	Consult a physician.
<u>EMERGENCY FIRST AID:</u>	Whenever first aid is required, it should be given immediately. Prompt treatment may greatly decrease the severity of the effect.
<u>CODE OF FEDERAL REGULATIONS:</u> The following ingredients are accepted food additives as listed in 21 CFR. Calcium Propionate 184.1221	

VI. REACTIVITY DATA		
STABILITY:	Unstable..... <input type="checkbox"/> Stable..... <input checked="" type="checkbox"/>	CONDITIONS TO AVOID: None
HAZARDOUS POLYMERIZATION:	May Occur <input type="checkbox"/> Not Occur..... <input checked="" type="checkbox"/>	MATERIALS TO AVOID: None
HAZARDOUS DECOMPOSITION PRODUCTS:	None	

VII: ENVIRONMENTAL PROTECTION PROCEDURES	
SPILL RESPONSE:	Spills may be swept up for recovery or appropriate waste disposal.
WASTE DISPOSAL:	Dispose in accordance with federal, state, and local regulations.

VIII: SPECIAL PROTECTION INFORMATION	
EYE PROTECTION: Goggles recommended.	SKIN PROTECTION: Avoid prolonged exposure. Rubber gloves recommended.
RESPIRATORY INFORMATION: Use a NIOSH approved respirator.	<u>VENTILATION RECOMMENDED</u> Local exhaust recommended.
	<u>OTHER PROTECTION:</u>

IX. SPECIAL PRECAUTIONS
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ISSUE DATE:	06/11/98	SUPERSEDES:	03/28/95
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