



Catalyst

Safety Data Sheet

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Version 1.0

## SECTION 1: Identification

### Product Identifier

**Product form:** Mixture

**Substance name:** Catalyst

**Synonyms:** N/A

**Recommended Use Of The Product:** Premix for Animal Feeds

### Supplier's Details:

Southland Organics  
232 Old Epps Bridge Rd  
Athens, GA 30606  
(800) 608-3755

**Emergency telephone number:**

(912) 489-3909

## SECTION 2: Hazard Identification

### GHS Classification:

Combustible Dust	
Eye Irritation	Category 2A
Reproductive Toxicity	Category 1B

### GHS Label Element:

Health Hazard  
Exclamation Mark

**Signal Word:** Danger

### GHS Precautionary Statements:

#### Prevention:

P201 Obtain special instructions before use.

P202 Do not handle until all safety precautions have been read and understood.

P264 Wash skin thoroughly after handling.

P280 Wear protective gloves/ eye protection/ face protection. P281 Use personal protective equipment as required.

#### Response:

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P308 + P313 IF exposed or concerned: Get medical advice/attention.

P337 + P313 If eye irritation persists: Get medical advice/attention.

#### Storage:

P405 Store locked up.

**Disposal:**

P501 Dispose of contents/ container to an approved waste disposal plant.

**Potential Health Effects**

Skin: May cause skin irritation.

Eyes: May cause eye irritation.

Aggravated Medical Condition: None known.

**Symptoms of Overexposure:** No specific symptoms known.

**Carcinogenicity:**

IARC	No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
ACGIH	No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.
OSHA	No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.
NTP	No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

**Additional hazards and advice:**

Women of childbearing age must avoid any overexposure. Risk of dust explosion.

### SECTION 3: Composition/Information on Ingredients

Brief description of the Product: Mixture

**Hazardous components**

### SECTION 4: First aid measures

General advice	Move out of dangerous area. Show this safety data sheet to the doctor in attendance. After any accidental exposure women should seek medical advice from a physician.
If inhaled	Move to fresh air. Consult a physician after significant exposure.
In case of skin contact	Take off contaminated clothing and shoes immediately. Wash off with soap and plenty of water. If symptoms persist, call a physician.
In case of eye contact	Immediately flush eye(s) with plenty of water. Remove contact lenses. Protect unharmed eye. Keep eye wide open while rinsing. If eye irritation persists, consult a specialist.
If swallowed	Clean mouth with water and drink afterwards plenty of water. Do not give milk or alcoholic beverages. Never give anything by mouth to an unconscious person. Obtain medical attention.

Notes to Physician	Treat symptomatically.
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## SECTION 5: Fire-fighting measures

### Flammable Properties

Flash point: Not applicable

### Fire Fighting

Suitable extinguishing media: Water  
Foam

### Further information:

Collect contaminated fire extinguishing water separately. This must not be discharged into drains.  
Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.  
Consider dust explosion hazard.

### Protective equipment and precautions for firefighters

Specific hazards during firefighting: None known.

Special protective equipment for firefighters: In the event of fire, wear self-contained breathing apparatus.

## SECTION 6: Accidental release measures

### Personal precautions, Protective equipment and emergency procedures:

- Evacuate personnel to safe areas.
- Use personal protective equipment.
- Ensure adequate ventilation.
- Avoid dust formation. Avoid breathing dust.

### Environmental precautions:

- Do not flush into surface water or sanitary sewer system.
- Prevent further leakage or spillage if safe to do so.
- If the product contaminates rivers and lakes or drains inform respective authorities.

### Methods and materials for containment and cleaning up:

- Pick up and arrange disposal without creating dust.
- Keep in suitable, closed containers for disposal.

## SECTION 7: Handling and Storage

### Precautions for safe handling:

- Avoid formation of respirable particles.
- Avoid exposure - obtain special instructions before use. For personal protection see section 8.
- Dispose of rinse water in accordance with local and national regulations.
- Smoking, eating and drinking should be prohibited in the application area.

### Advice on protection against fire and explosion:

- Avoid dust formation.
- Provide appropriate exhaust ventilation at places where dust is formed.
- Take precautionary measures against static discharges.

### Conditions for safe storage:

- Keep container tightly closed and dry.
- Prevent unauthorized access.

## SECTION 8: Exposure Controls/Personal Protection

Components	CAS No.	Value Type (Form of Exposure)	Control Parameters / Permissible Concentration	Basis
calcium pantothenate, D-form	137-08-6	TWA	10 mg/m <sup>3</sup>	DSM Internal Limit
retinyl acetate	127-47-9	TWA	0.23 mg/m <sup>3</sup>	DSM Internal Limit

Further information established for Men:

TWA 0.06 mg/m<sup>3</sup> DSM Internal Limit

### Personal protective equipment

Respiratory protection: No personal respiratory protective equipment normally required.  
In the case of dust or aerosol formation use respirator with an approved filter.

Hand protection: Glove material: for example nitrile rubber  
Consider the hazard characteristics of this product and any special workplace conditions when selecting the appropriate type of protective gloves.

Eye protection: Safety glasses with side-shields

Skin and body protection: Choose body protection according to the amount and concentration of the dangerous substance at the work place.

Hygiene measures: When using do not eat or drink.  
When using do not smoke.  
Avoid contact with skin, eyes and clothing.  
Wash hands before breaks and immediately after handling the product.

## SECTION 9: Physical and Chemical Properties

<b>Appearance</b>	Solid
<b>Odor</b>	No information available
<b>Odor threshold</b>	No information available
<b>pH</b>	No data available
<b>Melting point</b>	Not determined
<b>Initial Boiling point</b>	Not determined
<b>Boiling Range</b>	Not determined
<b>Flash Point</b>	Not applicable
<b>Flammability (solid, gas)</b>	May form combustible dust concentrations in air
<b>Vapor pressure</b>	Not applicable
<b>Vapor density</b>	Not applicable
<b>Relative density</b>	Not determined

<b>Solubility</b>	Not determined
<b>Partition coefficient: n-octanol/water</b>	Not applicable
<b>Auto-ignition temperature</b>	No data available
<b>Decomposition Temperature</b>	140 F
<b>Explosive Properties</b>	No data available
<b>Oxidizing Properties</b>	No data available

## SECTION 10: Stability and Reactivity

**Reactivity:** No hazards to be specially mentioned.

**Chemical Stability:** Stable under recommended storage conditions.

**Possibility Of Hazardous Reactions:** Dust may form explosive mixture in air.

**Conditions To Avoid:** Heat.

**Incompatible Materials:** Strong acids and strong bases.  
Strong oxidizing agents .

**Hazardous Decomposition Products:** No decomposition if used as directed.

## SECTION 11: Toxicology Information

Acute oral toxicity:	Acute toxicity estimate: > 5,000 mg/kg (Calculation method)
Skin irritation:	May cause skin irritation and/or dermatitis.
Eye irritation:	May irritate eyes.
Genotoxicity in vitro, retinyl acetate:	Not mutagenic, not genotoxic (Various test systems)
Teratogenicity, retinyl acetate:	Teratogenic embryotoxic
STOT - Single exposure, Acute exposure, menadione sodium bisulfite, trihydrate:	May cause respiratory irritation.
Experience with human exposure, retinyl acetate:	RDA (Recommended Daily Allowance) 0.8 mg pure vitamin A (retinol) per day established for men RDA (Recommended Daily Allowance) ca. 0.7 mg pure vitamin A (retinol) per day established for women
Experience with human exposure: menadione sodium bisulfite, trihydrate:	Skin contact - Skin contact may provoke the following symptoms: Toxic skin damage (especially on damp skin), Skin irritation, Discoloration, Drying of the skin, Blistering
retinyl acetate:	Skin contact may provoke the following symptoms: Local irritation
Experience with human exposure:	

retinyl acetate:

Ingestion:

Acute overdose produces the following symptoms: Headache, Irritability, Tiredness, Drowsiness, Nausea, Vomiting, Signs of increased intracranial pressure, Generalized desquamation of the skin (after ca. 24 hours)

Further information:

May cause irritation of respiratory tract.

## SECTION 12: Ecological Information

### Toxicity

Toxicity to fish:

menadione sodium bisulfite,  
trihydrate

Oncorhynchus mykiss (rainbow trout)  
LC50 (96 h) 0.43 mg/l  
(nominal concentration)  
(OECD Test Guideline 203)

Toxicity to daphnia and other aquatic invertebrates

menadione sodium bisulfite,  
trihydrate:

Daphnia magna (Water flea)  
EC50 (48 h) 0.73 mg/l  
(nominal concentration)  
(OECD Test Guideline 202)

No data is available on the product itself.

### Persistence and degradability

Biodegradability

menadione sodium bisulfite,  
trihydrate:

Not readily biodegradable.  
17 % (28 d)  
(OECD Test Guideline 301A)

retinyl acetate:

Not readily biodegradable.  
33 % (28 d)  
(OECD Test Guideline 301B)

No data is available on the product itself.

### Bioaccumulative potential

Bioaccumulation:

No data available

Partition coefficient: n-octanol/water: Not applicable

### Mobility in soil

Distribution among environmental compartments: No data available

### Results of PBT and vPvB Assessment

Assessment: Not applicable

### Other Adverse Effects

Regulation: 40 CFR Protection of Environment; Part 82 Protection of Stratospheric Ozone - CAA Section 602 Class I Substances

Remarks: This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B)

Additional ecological information: Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

## SECTION 13: Disposal Considerations

### Disposal methods

Waste from residues: Discharge into the environment must be avoided.  
Do not contaminate ponds, waterways or ditches with chemical or used container.  
Do not dispose of waste into sewer.  
Offer surplus and non-recyclable solutions to a licensed disposal company.

User must determine if any wastes generated exhibit hazardous characteristics as per 40 CFR Part 261 or other national / local legislation.

Contaminated packaging: Dispose of as unused product.  
Do not re-use empty containers.

## SECTION 14: Transport Information

### International Regulation

#### UNRTDG

Not regulated as a dangerous good

#### IATA-DGR

Not regulated as a dangerous good

#### IMDG-Code

Not regulated as a dangerous good

### Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

### National Regulations

#### 49 CFR

Not regulated as a dangerous good

## SECTION 15: Regulatory Information

TSCA List: Not relevant

**EPCRA - Emergency Planning and Community Right-to-Know Act:** Not Relevant

**CERCLA Reportable Quantity**

This material does not contain any components with a CERCLA RQ.

**SARA 304 Extremely Hazardous Substances Reportable Quantity**

This material does not contain any components with a section 304 EHS RQ.

**SARA 311/312 Hazards:** Fire Hazard  
Acute Health Hazard Chronic Health Hazard

**SARA 302:** No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

**SARA 313:** This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

**Clean Air Act**

This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 12 (40 CFR 61).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 111 SOCM I Intermediate or Final VOC's (40 CFR 60.489).

**Clean Water Act**

This product does not contain any Hazardous Substances listed under the U.S. CleanWater Act, Section 311, Table 116.4A.

This product does not contain any Hazardous Chemicals listed under the U.S. CleanWater Act, Section 311, Table 117.3.

This product does not contain any toxic pollutants listed under the U.S. Clean Water Act Section 307

**Massachusetts Right To Know**

No components are subject to the Massachusetts Right to Know Act.

**Pennsylvania Right To Know**

citric acid	77-92-9	20 - 30 %
potassium chloride	7447-40-7	20 - 30 %
sodium chloride	7647-14-5	10 - 20 %
3,4-dihydro-2,5,7,8-tetramethyl-2-(4,8,12-trimethyltridecyl)-2H-benzopyran-6-yl acetate	7695-91-2	1 - 5 %
ascorbic acid	50-81-7	1 - 5 %
Lignosulfonic acid, calcium salt	8061-52-7	1 - 5 %
calcium pantothenate , D-form	137-08-6	1 - 5 %

**New Jersey Right To Know**



citric acid	77-92-9	20 - 30 %
potassium chloride	7447-40-7	20 - 30 %
sodium chloride	7647-14-5	10 - 20 %
3,4-dihydro-2,5,7,8-tetramethyl-2-(4,8,12-trimethyltridecyl)-2H-benzopyran-6-yl acetate	7695-91-2	1 - 5 %
ascorbic acid	50-81-7	1 - 5 %

**The components of this product are reported in the following inventories:**

TSCA: Not On TSCA Inventory  
menadione sodium bisulfite, trihydrate  
Protein hydrolyzates, vegetable

## SECTION 16: Other Information

**NFPA:** Flammability

0

**HMISIII:**

Special hazard.

0 = not significant, 1 =Slight,  
2 = Moderate, 3 = High  
4 = Extreme, \* = Chronic

*The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.*

*Abbreviations: ACGIH = American Conference of Governmental Industrial Hygienists. CERCLA = Comprehensive Environmental Response, Compensation and Liability Act. CFR = Code of Federal Regulations. CPR = Controlled Products Regulations. DSL = Canadian Domestic Substance List. DOT = Department of Transportation. EINECS = European Inventory of New and Existing Chemical Substances. EPA = Environmental Protection Agency. HCS = Hazardous Communication Standard. HEPA = High Efficiency Particulate Air. HMIS = Hazardous Material Identification System. IARC = International Agency for Research on Cancer. IATA = International Air Transport Association. IMDG = International Maritime Dangerous Good. NFPA = National Fire Protection Association. NIOSH = National Institute of Occupational Safety and Health. NJTSR = New Jersey Trade Secret Registry. NTP = National Toxicology Program. OSHA = Occupational Safety and Health Administration. SARA = Superfund Amendments and Reauthorization Act. TDG = Transportation of Dangerous Goods. TLV = Threshold Limit Value. TSCA = Toxic Substance Control Act. WHMIS = Workplace Hazardous Materials Information System.*