Material Safety Data Sheet



Issuing Date 12/27/2010 Revision Number 0

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name Starch Indicator Solution

Product Code(s) 4170

Recommended UseTest kit reagent. Laboratory chemicals. Industrial (not for food or food contact use).

Company LaMotte Company, Inc.

802 Washington Avenue

P.O. Box 329

Chestertown, MD 21620

USA

Emergency Telephone Number 24 Hour Emergency Number (CHEM-TEL):

USA, Canada, Puerto Rico 1-800-255-3924

Outside North American Continent (Call collect) 813-248-0585

2. HAZARDS IDENTIFICATION

Emergency Overview

Avoid all unnecessary exposure to the chemical substance and ensure prompt removal from skin, eyes, and clothing

May be harmful if swallowed May cause eye irritation

Appearance Colorless Physical State Liquid Odor None

OSHA Regulatory Status While this material is not considered hazardous by the OSHA Hazard Communication

Standard (29 CFR 1910.1200), this MSDS contains valuable information critical to the safe handling and proper use of the product. This MSDS should be retained and available for

employees and other users of this product.

Potential Health Effects

Principle Routes of Exposure Skin and eye contact

Acute Toxicity

Eyes Contact with eyes may cause irritation.

Skin No hazard from product as supplied.

Inhalation Not an expected route of exposure.

Ingestion May cause gastrointestinal discomfort if consumed in large amounts.

Chronic Effects Prolonged skin contact may cause skin irritation and/or dermatitis.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS-No	Weight %
Soluble Starch (Amylodextrin)	9005-84-9	0.5
Salicylic acid	69-72-7	0.13
Water	7732-18-5	to 100%

4. FIRST AID MEASURES

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General Advice Do not get in eyes, on skin, or on clothing.

Eye Contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. If

irritation persists or develops, contact a physician.

Skin Contact Wash off with warm water and soap. If skin irritation persists, call a physician.

Inhalation Not expected.

Ingestion Drink plenty of water. Do not induce vomiting without medical advice (pH 3). Consult a

physician. Never give anything by mouth to an unconscious person.

Protection of First-aiders

Use personal protective equipment. See Section 8 for more detail. Do not use mouth-to-

mouth method if victim ingested or inhaled the substance; induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical

device.

5. FIRE-FIGHTING MEASURES

Flammable Properties Not a fire hazard.

Flash Point Not applicable

Suitable Extinguishing Media Dry chemical, CO₂, alcohol-resistant foam or water spray.

Explosion Data

NFPA Health Hazard 0 Flammability 0 Stability 0 Physical and Chemical Hazards -

6. ACCIDENTAL RELEASE MEASURES

clothing.

Methods for Cleaning Up Neutralize spill with alkaline material (sodium bicarbonate), being careful to prevent

splattering, then containerize slurry and hold for later disposal. If local regulations permit, dilute slurry with water and rinse to drain with excess water.. Keep in suitable and closed

containers for disposal. After cleaning, flush away traces with water.

7. HANDLING AND STORAGE

Handling Handle in accordance with good industrial hygiene and safety practice. Prevent contact with

skin, eyes, and clothing. Do not ingest. Do not eat, drink, or smoke when using this product.

Storage Keep containers tightly closed in a dry, cool, and well-ventilated place. Store at room

temperature. Keep away from direct sunlight. Keep away from heat and incompatibles.

Keep out of the reach of children.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Soluble Starch (Amylodextrin)	None Known	None Known	None Known
9005-84-9			
Salicylic acid	None Known	None Known	None Known
69-72-7			
Water	None Known	None Known	None Known
7732-18-5			

Personal Protective Equipment

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Eye/Face Protection Safety glasses with side-shields.

Skin and Body Protection Wear protective gloves/clothing.

Respiratory Protection When workers are facing concentrations above the exposure limit they must use

appropriate certified respirators.

Hygiene Measures Handle in accordance with good industrial hygiene and safety practice. Do not eat, drink or

smoke when using this product. Wash hands before breaks and immediately after handling

the product.

9. PHYSICAL AND CHEMICAL PROPERTIES

AppearanceColorlessOdorNonePhysical StateLiquidpH3

Flash Point Not applicable Boiling Point/Range ca. 100 °C / 212 °F

Vapor Pressure <17 mmHg @ 20°C Vapor Density <1(Air = 1)

10. STABILITY AND REACTIVITY

Stability Stable under normal conditions of use and storage.

Incompatible Products Strong oxidizing agents. Iron salts.

Conditions to Avoid Excessive heat. Incompatible products. Direct sunlight.

Hazardous Decomposition Products Carbon monoxide (CO).

Hazardous Polymerization Hazardous polymerization does not occur.

11. TOXICOLOGICAL INFORMATION

Acute Toxicity

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Soluble Starch (Amylodextrin)	None Known	None Known	None Known
Salicylic acid	891 mg/kg (Rat)	2000 mg/kg (Rabbit) 2000 mg/kg (Rat)	0.9 mg/L (Rat)1 h
Water	90 mL/kg (Rat)	None Known	None Known

Chronic Toxicity

Chronic Toxicity Prolonged skin contact may cause skin irritation and/or dermatitis.

Chemical Name	ACGIH	IARC	NTP	OSHA
Soluble Starch	None Known	None Known	None Known	None Known
(Amylodextrin)				
Salicylic acid	None Known	None Known	None Known	None Known
Water	None Known	None Known	None Known	None Known

Chemical Name	EU - Endocrine Disrupters		Japan - Endocrine Disruptor Information
Soluble Starch (Amylodextrin)	None Known	None Known	None Known
Salicylic acid	None Known	None Known	None Known
Water	None Known	None Known	None Known

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12. ECOLOGICAL INFORMATION

Ecotoxicity

Chemical Name	Toxicity to Algae	Toxicity to Fish	Microtox	Daphnia Magna (Water Flea)
Soluble Starch (Amylodextrin)	None Known	None Known	None Known	None Known
Salicylic acid	None Known	None Known	EC50 = 138 mg/L 1 h EC50 = 214 mg/L 5 min EC50 = 552 mg/L 1 h EC50 = 78 mg/L 210 min	EC50 = 105 mg/L 24 h
Water	None Known	None Known	None Known	None Known

Chemical Name	Log Pow
Soluble Starch (Amylodextrin)	None Known
Salicylic acid	0 - 2.26 37 °C
Water	None Known

13. DISPOSAL CONSIDERATIONS

Waste Disposal Method

Dispose according to federal, state, and local regulations. If permitted, neutralize reagent with sodium bicarbonate/sodium carbonate, add slurry to large volume of water to dilute, rinse to drain with excess water.

Chemical Name
Soluble Starch
(Amylodextrin) - 9005-84-9
Salicylic acid - 69-72-7
Water - 7732-18-5

Chemical Name	RCRA - Halogenated Organic Compounds	RCRA - P Series Wastes	RCRA - F Series Wastes	RCRA - K Series Wastes
Soluble Starch (Amylodextrin) - 9005-84-9	None Known	None Known	None Known	None Known
Salicylic acid - 69-72-7	None Known	None Known	None Known	None Known
Water - 7732-18-5	None Known	None Known	None Known	None Known

14. TRANSPORT INFORMATION

DOT Not regulated

IATA Not regulated

IMDG/IMO Not regulated

15. REGULATORY INFORMATION

International Inventories

Component	TSCA	DSL	EINECS/ELIN CS	ENCS	IECSC	KECL	PICCS	AICS
Soluble Starch (Amylodextrin) 9005-84-9 (0.5)	XU	Х	Х	ENCS	Х	KE-01773	Х	Х
Salicylic acid 69-72-7 (0.13)	Present	X	X	3-1640	X	KE-20367	X	X
Water 7732-18-5 (to 100%)	Present	X	X	ENCS	X	KE-35400	X	X

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U.S. Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

Chemical Name	CAS-No	Weight %	SARA 313 - Threshold Values %
Soluble Starch (Amylodextrin)	9005-84-9	0.5	None Known
Salicylic acid	69-72-7	0.13	None Known
Water	7732-18-5	to 100%	None Known

SARA 311/312 Hazard Categories

Acute Health Hazard

Chronic Health Hazard

No
Fire Hazard

No
Sudden Release of Pressure Hazard

No
Reactive Hazard

No

Clean Water Act

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

Component	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Soluble Starch (Amylodextrin) 9005-84-9 (0.5)	None Known	None Known	None Known	None Known
Salicylic acid 69-72-7(0.13)	None Known	None Known	None Known	None Known
Water 7732-18-5 (to 100%)	None Known	None Known	None Known	None Known

Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61)

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Chemical Name	CAS-No	Weight %	HAPS data	VOC Chemicals	Class 1 Ozone	Class 2 Ozone
		_			Depletors	Depletors
Soluble Starch (Amylodextrin)	9005-84-9	0.5	None Known	None Known	None Known	None Known
Salicylic acid	69-72-7	0.13	None Known	Group III	None Known	None Known
Water	7732-18-5	to 100%	None Known	None Known	None Known	None Known

CERCLA

Chemical Name	Hazardous Substances RQs	Extremely Hazardous Substances RQs	
Soluble Starch (Amylodextrin)	None Known	None Known	
Salicylic acid	None Known	None Known	
Water	None Known	None Known	

U.S. State Regulations

California Proposition 65

This product does not contain any Proposition 65 chemicals

Chemical Name	CAS-No	California Prop. 65	
Soluble Starch (Amylodextrin)	9005-84-9 None Known		
Salicylic acid	69-72-7	None Known	
Water	7732-18-5	None Known	

Chemical Name Massachusetts New Jersey Pennsylvania Illinois Rhode Isl	ind

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Soluble Starch	None Known				
(Amylodextrin)					
Salicylic acid	None Known				
Water	None Known				

International Regulations

Mexico - Grade

Chemical Name	Carcinogen Status	Exposure Limits
Soluble Starch (Amylodextrin)	None Known	None Known
Salicylic acid	None Known	None Known
Water	None Known	None Known

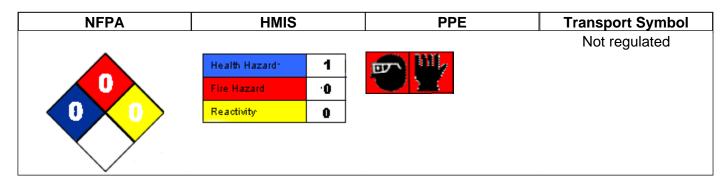
Canada

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.

WHMIS Hazard Class

Non-controlled

16. OTHER INFORMATION



Prepared By Regulatory Affairs Department

Issuing Date 12/27/2010

Revision Date

Revision Note Initial Release.

Disclaimer

The information provided on this MSDS 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 guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as 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 material or in any process, unless specified in the text.

End of MSDS