

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name UNIVERSAL EXTRACTING SOLUTION

Product Code(s) 5173

Synonyms none / ninguno / aucun

Recommended Use Test 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
May cause skin, eye, and respiratory tract irritation
Large oral doses may cause gastrointestinal irritation

Appearance Clear, colorless **Physical State** Liquid **Odor** Vinegar

Potential Health Effects
Principle Routes of Exposure Eye contact, Skin contact, and, Ingestion.

Acute Toxicity

- Eyes** May cause irritation.
- Skin** May cause irritation.
- Inhalation** May cause irritation of respiratory tract.
- Ingestion** May cause irritation. Ingestion may cause stomach discomfort.

Chronic Effects

Aggravated Medical Conditions None known.

Environmental Hazard No information available.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS-No	Weight %
Polyacrylamides	9003-05-8	<0.01
Acetic acid	64-19-7	1-5
Acetate, sodium, trihydrate	6131-90-4	10
Water	7732-18-5	to 100%

4. FIRST AID MEASURES

General Advice	Do not get in eyes, on skin, or on clothing. Show this safety data sheet to the doctor in attendance.
Eye Contact	Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a physician.
Skin Contact	Wash off with soap and plenty of water removing all contaminated clothes and shoes. If irritation develops or persists, consult physician.
Inhalation	Move to fresh air.
Ingestion	Drink plenty of water. If symptoms persist or develop contact physician.
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	Water spray, dry chemical, carbon dioxide (CO ₂), or foam.			
Explosion Data				
Protective Equipment and Precautions for Firefighters	As in any fire, wear self-contained breathing apparatus and full protective gear.			
NFPA	Health Hazard 1	Flammability 0	Stability 0	Physical and Chemical Hazards N/A
HMIS	Health Hazard 1	Flammability 0	Stability 0	

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions	Avoid contact with the skin and the eyes. Refer to Section 8.
Methods for Containment	Absorb/Cover spill with sodium bicarbonate or sodium carbonate to neutralize, then place in a chemical waste container for later disposal. Dispose according to federal, state, and local regulations. Dispose according to local regulations, if permitted dissolve in water and rinse to drain.
Methods for Cleaning Up	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	Do not store in metal containers. Store away from strong acids and oxidizers.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Polyacrylamides 9003-05-8	None Known	None Known	None Known
Acetic acid 64-19-7	= 15 ppm STEL TWA: 10 ppm	TWA: 10 ppm TWA: 25 mg/m ³	IDLH: 50 ppm TWA: 25 mg/m ³ TWA: 10 ppm STEL: 15 ppm STEL: 37 mg/m ³

Acetate, sodium, trihydrate 6131-90-4	None Known	None Known	None Known
Water 7732-18-5	None Known	None Known	None Known

Engineering Measures Ensure that eyewash stations and safety showers are close to the workstation location.
Ensure adequate ventilation, especially in confined areas.

Personal Protective Equipment**Eye/Face Protection**

Safety glasses with side-shields. Avoid contact with eyes.

Skin and Body Protection

Gloves & Lab Coat.

Respiratory Protection

Maintain adequate ventilation.

Hygiene Measures

Avoid contact with skin, eyes and clothing. Handle in accordance with good industrial hygiene and safety practice. Wash hands and face before breaks and immediately after handling the product.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Clear, colorless	Odor	Vinegar
Physical State	Liquid	pH	5
Flash Point	Not applicable	Autoignition Temperature	Not applicable
Boiling Point/Range	No data available		

Specific Gravity	No data available	Molecular Weight	No data available
Vapor Pressure	No information available	Vapor Density	No information available

10. STABILITY AND REACTIVITY

Stability	Stable under normal conditions of use and storage.
Incompatible Products	Strong oxidizing agents. Strong acids. Metals.
Conditions to Avoid	Excessive heat.
Hazardous Decomposition Products	Carbon oxides (COx). Nitrogen oxides (NOx). Sodium oxides.
Hazardous Reactions	Hazardous polymerization does not occur.

11. TOXICOLOGICAL INFORMATION

Acute Toxicity

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Polyacrylamides	1 g/kg (Rat)	None Known	None Known
Acetic acid	3310 mg/kg (Rat)	1060 mg/kg (Rabbit)	11.4 mg/L (Rat) 1 h
Acetate, sodium, trihydrate	3530 mg/kg (Rat)	10 g/kg (Rabbit)	30 g/m ³ (Rat) 1 h
Water	90 mL/kg (Rat)	None Known	None Known

Chronic Toxicity

Carcinogenicity There are no known carcinogenic chemicals in this product.

Chemical Name	ACGIH	IARC	NTP	OSHA
Polyacrylamides	None Known	None Known	None Known	None Known
Acetic acid	None Known	None Known	None Known	None Known
Acetate, sodium, trihydrate	None Known	None Known	None Known	None Known

Water	None Known	None Known	None Known	None Known
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Endocrine Disruptor Information

Chemical Name	EU - Endocrine Disruptors Candidate List	EU - Endocrine Disruptors - Evaluated Substances	Japan - Endocrine Disruptor Information
Polyacrylamides	None Known	None Known	None Known
Acetic acid	None Known	None Known	None Known
Acetate, sodium, trihydrate	None Known	None Known	None Known
Water	None Known	None Known	None Known

12. ECOLOGICAL INFORMATION**Ecotoxicity**

Chemical Name	Toxicity to Algae	Toxicity to Fish	Microtox	Daphnia Magna (Water Flea)
Polyacrylamides	None Known	None Known	None Known	None Known
Acetic acid	None Known	LC50= 75 mg/L Lepomis macrochirus 96 h LC50= 88 mg/L Pimephales promelas 96 h	EC50 = 8.8 mg/L 15 min EC50 = 8.8 mg/L 25 min EC50 = 8.8 mg/L 5 min	EC50 = 95 mg/L 24 h
Acetate, sodium, trihydrate	None Known	None Known	None Known	None Known
Water	None Known	None Known	None Known	None Known

Persistence and Degradability No information available.**Bioaccumulation/Accumulation** No information available.

Chemical Name	Log Pow
Polyacrylamides	None Known
Acetic acid	= -0.31 20 °C
Acetate, sodium, trihydrate	None Known
Water	None Known

13. DISPOSAL CONSIDERATIONS**Waste Disposal Method** Dispose according to federal, state, and local regulations.**Contaminated Packaging** Dispose of in accordance with local regulations.

Chemical Name	RCRA - Halogenated Organic Compounds	RCRA - P Series Wastes	RCRA - F Series Wastes	RCRA - K Series Wastes
Polyacrylamides - 9003-05-8	None Known	None Known	None Known	None Known
Acetic acid - 64-19-7	None Known	None Known	None Known	None Known
Acetate, sodium, trihydrate - 6131-90-4	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/ELINCS	ENCS	IECSC	KECL	PICCS	AICS
Polyacrylamides 9003-05-8 (<0.01)	XU	X	EINECS/ELINCS	6-849	X	KE-29375	X	X
Acetic acid 64-19-7 (1-5)	Present	X	X	2-688	X	KE-00013	X	X
Acetate, sodium, trihydrate 6131-90-4 (10)	TSCA	DSL	EINECS/ELINCS	2-692	X	KECL	X	X
Water 7732-18-5 (to 100%)	Present	X	X	ENCS	X	KE-35400	X	X

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 %
Polyacrylamides	9003-05-8	<0.01	None Known
Acetic acid	64-19-7	1-5	None Known
Acetate, sodium, trihydrate	6131-90-4	10	None Known
Water	7732-18-5	to 100%	None Known

SARA 311/312 Hazard Categories

Acute Health Hazard	Yes
Chronic Health Hazard	No
Fire Hazard	No
Sudden Release of Pressure Hazard	No
Reactive Hazard	No

Clean Water Act

This product contains the following substances which are regulated 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
Polyacrylamides 9003-05-8 (<0.01)	None Known	None Known	None Known	None Known
Acetic acid 64-19-7 (1-5)	5000 lb	None Known	None Known	X
Acetate, sodium, trihydrate 6131-90-4 (10)	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)

This product contains the following substances which are listed hazardous air pollutants (HAPS) under Section 112 of the Clean Air Act.

Chemical Name	CAS-No	Weight %	HAPS data	VOC Chemicals	Class 1 Ozone Depletors	Class 2 Ozone Depletors
Polyacrylamides	9003-05-8	<0.01	None Known	None Known	None Known	None Known
Acetic acid	64-19-7	1-5	None Known	Group II	None Known	None Known
Acetate, sodium, trihydrate	6131-90-4	10	None Known	None Known	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
Polyacrylamides	None Known	None Known

Acetic acid	5000 lb	None Known
Acetate, sodium, trihydrate	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
Polyacrylamides	9003-05-8	None Known
Acetic acid	64-19-7	None Known
Acetate, sodium, trihydrate	6131-90-4	None Known
Water	7732-18-5	None Known

U.S. State Right-to-Know Regulations

Chemical Name	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
Polyacrylamides	None Known	None Known	None Known	None Known	None Known
Acetic acid	X	X	X	None Known	X
Acetate, sodium, trihydrate	None Known	None Known	None Known	None Known	None Known
Water	None Known	None Known	None Known	None Known	None Known

International Regulations**Mexico - Grade**

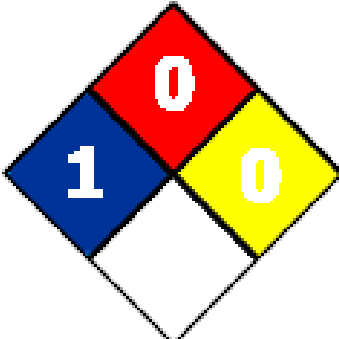

Chemical Name	Carcinogen Status	Exposure Limits
Polyacrylamides	None Known	None Known
Acetic acid	None Known	Mexico: TWA= 25 mg/m ³ Mexico: TWA= 10 ppm
Acetate, sodium, trihydrate	None Known	None Known
Water	None Known	None Known

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 information downloaded from <http://ccinfoweb.ccohs.ca/whmis/search.html>

Component	WHMIS Hazard Class
Polyacrylamides 9003-05-8 (<0.01)	Uncontrolled product according to WHMIS classification criteria
Acetic acid 64-19-7 (1-5)	1 % B3 E D2B
Acetate, sodium, trihydrate 6131-90-4 (10)	Uncontrolled product according to WHMIS classification criteria
Water 7732-18-5 (to 100%)	Uncontrolled product according to WHMIS classification criteria

**16. OTHER INFORMATION**

NFPA	HMIS	PPE	Transport Symbol						
	<table border="1"> <tr> <td data-bbox="508 195 719 237">Health Hazard</td> <td data-bbox="727 195 800 237">1</td> </tr> <tr> <td data-bbox="508 247 719 289">Fire Hazard</td> <td data-bbox="727 247 800 289">0</td> </tr> <tr> <td data-bbox="508 300 719 342">Reactivity</td> <td data-bbox="727 300 800 342">0</td> </tr> </table>	Health Hazard	1	Fire Hazard	0	Reactivity	0		
Health Hazard	1								
Fire Hazard	0								
Reactivity	0								

Prepared By Regulatory Affairs Department
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 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