

## To Our Customers:

The attached Safety Data Sheet (SDS) was prepared by the vendor of the product you purchased through one of our divisions. We used the manufacturer's electronic document directly or scanned a paper copy and generated a file for our automated SDS delivery system.

All statements, technical information, and recommendations contained therein are solely that of the manufacturer of the product. We at Zep Inc. did not verify the accuracy and completeness of the statements and do not warrantee or guarantee the information. We provide vendor SDSs to assist our customers in their compliance efforts. The attached document is in compliance with one of the respective country regulatory requirements noted below:

The OSHA Hazard Communication Standard (in the United States) The Hazardous Products Regulations (in Canada)

We made every effort to deliver all of the information prepared by the manufacturer. We cannot anticipate all conditions under which this information will be used. If you have any questions about the statements on the SDS, please contact the company shown on the document.

Zep Inc. assumes no liability or responsibility for loss or damage resulting from the improper use or handling of this product, from incompatible product combinations, or from the failure to follow instructions, warnings, and advisories in the manufacturer's product label and Safety Data Sheet.

Sincerely,

Product Stewardship Team Zep Inc.



# **Safety Data Sheet**

Issuing Date Apr-06-2017 Revision Date Mar-02-2018 **Revision Number 1** 

# 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Product identifier

**Product name CHLORINE REAGENT 2** 

Other means of identification

Product Code(s) 4499 **UN-No** 3265

Recommended use of the chemical and restrictions on use

**Recommended Use** Use as a laboratory reagent. Laboratory chemicals. Industrial (not for food or food contact

use).

Details of the supplier of the safety data sheet

**Manufacturer Address** LaMotte Company, Inc. 802 Washington Avenue

P.O. Box 329

Chestertown, MD 21620 USA

T 410-778-3100 F 410-778-9748

**Emergency telephone numbers** 

(CHEM-TEL):USA, Canada, Puerto Rico 1-800-255-3924 Outside North American Continent (Call collect) 813-248-0585

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# 2. HAZARDS IDENTIFICATION

Skin corrosion/irritation	Category 1
Serious eye damage/eye irritation	Category 1

#### **EMERGENCY OVERVIEW**

## DANGER

#### Hazard statements

Causes severe skin burns and eye damage.



Appearance Colorless

Physical state liquid

Odor Slight Acrid

## **Precautionary Statements - Prevention**

Do not taste or swallow. Do not breathe dust /fume /gas /mist /vapors /spray. Wash face, hands and any exposed skin thoroughly after handling. Wear protective gloves /protective clothing /eye protection /face protection.

Response: Immediately call a poison center or physician.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. IF ON SKIN (or hair): Remove immediately all contaminated clothing. Rinse skin with water. Wash contaminated clothing before reuse.

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

IF SWALLOWED:. Rinse mouth. Do NOT induce vomiting.

#### Storage:

Store locked up.

## Disposal:

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

#### Other Hazards

May be harmful in contact with skin.

# 3. COMPOSITION/INFORMATION ON INGREDIENTS\*

Chemical name	CAS No	Weight-%
Lactic acid	50-21-5	53

## 4. FIRST AID MEASURES

## **First Aid Measures**

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

**Eye contact** IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if

present and easy to do. Continue rinsing. Seek immediate medical attention/advice.

**Skin contact** Wash off immediately with soap and plenty of water for at least 15 minutes. Take off

contaminated clothing and wash before reuse. If symptoms persist, call a physician.

**Inhalation** IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing.

Give artificial respiration if victim is not breathing. If symptoms persist, call a physician.

Ingestion Do NOT induce vomiting. Call a physician immediately. Drink plenty of water. Never give

anything by mouth to an unconscious person.

Self-protection of the first aider Ensure that medical personnel are aware of the material(s) involved, take precautions to

protect themselves and prevent spread of contamination. Use personal protection

recommended in Section 8.

## 5. FIREFIGHTING MEASURES

#### Suitable extinguishing media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

#### **Hazardous combustion products**

Contact with metals may evolve flammable hydrogen gas.

#### Protective equipment and precautions for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

## 6. ACCIDENTAL RELEASE MEASURES

#### Personal precautions, protective equipment and emergency procedures

Personal precautions Ensure adequate ventilation. Use personal protection recommended in Section 8. Avoid

breathing vapors or mists. Avoid contact with skin, eyes or clothing.

Environmental precautions See Section 12 for additional Ecological Information. Beware of vapors accumulating to

form explosive concentrations. Vapors can accumulate in low areas.

#### Methods and material for containment and cleaning up

Methods for containment Absorb spill with inert material (e.g. dry sand or earth), then place in a chemical waste

container. Dispose of contents/containers in accordance with local regulations.

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. After cleaning, flush away

traces with water.

## 7. HANDLING AND STORAGE

#### Precautions for safe handling

Handling Handle in accordance with good industrial hygiene and safety practice. Do not taste or

swallow. Avoid contact with skin, eyes or clothing. Do not eat, drink or smoke when using

this product.

## Conditions for safe storage, including any incompatibilities

**Storage:** Keep containers tightly closed in a dry, cool and well-ventilated place. Do not store near

combustible materials. Keep away from heat. Keep away from oxidizing agents. Store away

from strong bases or metals. Keep out of the reach of children.

Incompatible Products Strong oxidizing agents. Iodides. Metals. Contact with metals (aluminum, iron,

steel) may release hydrogen gas.

# 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Control parameters

Chemical name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Lactic acid	*_	*-	Not Established
50-21-5			

## **Appropriate engineering controls**

**Engineering Measures** Ensure adequate ventilation, especially in confined areas.

#### Individual protection measures, such as personal protective equipment

**Eye/Face Protection** Wear safety glasses with side shields (or goggles).

**Skin and body protection** Impervious clothing. Protective gloves. Rubber gloves. Neoprene gloves.

**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

# Information on basic physical and chemical properties

Physical state liquid

Appearance Colorless Odor Slight Acrid

<u>Property</u> <u>Values</u> <u>Remarks • Method</u>

**pH** <2

Melting point / freezing point

Boiling point / boiling range

No information available
No information available

Flash point Not Applicable 113 °C / 235 °F CC for 85% Lactic acid (based on .?)

No information available

**Evaporation rate** 

Flammability (solid, gas) No information available

Flammability Limit in Air Upper flammability limit:

Lower flammability limit: No information available Vapor pressure No information available Vapor density No information available Specific gravity No information available Water solubility No information available No information available Solubility in other solvents No information available Partition coefficient No information available **Autoignition temperature** No information available **Decomposition temperature** No information available Kinematic viscosity No information available **Dynamic viscosity** No information available **Explosive properties Oxidizing properties** No information available

#### **Other Information**

Softening pointNo information availableMolecular weightNo information availableVOC Content (%)No information availableDensityNo information availableBulk densityNo information available

# 10. STABILITY AND REACTIVITY

**Stability** Stable under recommended storage conditions.

Hazardous Reactions Contact with metals may evolve flammable hydrogen gas.

**Hazardous polymerization** Hazardous polymerization does not occur.

**Conditions to avoid** Excessive heat. Incompatible Products.

Incompatible materials Strong oxidizing agents. lodides. Metals. Contact with metals (aluminum, iron,

steel) may release hydrogen gas.

Hazardous decomposition products Carbon oxides (COx).

## 11. TOXICOLOGICAL INFORMATION

#### Information on likely routes of exposure

Component identification

Chemical name	ATEmix (oral)	ATEmix (dermal)	Inhalation LC50
Lactic acid	= 3543 mg/kg (Rat)	> 2 g/kg(Rabbit)	Not Established
50-21-5			

Information on toxicological effects

Chemical name	ACGIH	IARC	NTP	OSHA
Lactic acid	Not Established	Not Established	Not Established	Not Established
50-21-5				

IARC (International Agency for Research on Cancer)

Group 1 - Carcinogenic to Humans

**ATEmix (oral)** 6,685.00 mg/kg **ATEmix (dermal)** 3,774.00 mg/kg

# 12. ECOLOGICAL INFORMATION

#### Ecotoxicity

Unknown Aquatic Toxicity 100 % of the mixture consists of components(s) of unknown hazards to the aquatic environment

	,	(-)	
Chemical name	Toxicity to Algae	Toxicity to Fish	Daphnia Magna (Water Flea)
Lactic acid	Not Established	Not Established	Not Established
50-21-5			

## Persistence and degradability

No information available.

# **Bioaccumulation/Accumulation**

When released into the soil, this material may leach into ground water. When released into the air, this material may be removed from the atmosphere to a moderate extent by wet or dry deposition.

Chemical name	Log Pow
Lactic acid	Not Established
50-21-5	

# 13. DISPOSAL CONSIDERATIONS

Disposal Methods Dispose of contents/containers in accordance with local regulations. 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.

**Contaminated packaging** Do not reuse empty containers.

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Chemical name	RCRA	RCRA - Basis for Listing	RCRA - D Series Wastes	RCRA - U Series Wastes
Lactic acid 50-21-5	Not Established	-	Not Established	Not Established

	Chemical name	RCRA - Halogenated Organic Compounds	RCRA - P Series Wastes	RCRA - F Series Wastes	RCRA - K Series Wastes
Ī	Lactic acid 50-21-5	Not Established	Not Established	Not Established	Not Established

Chemical name	California Hazardous Waste Status
Lactic acid 50-21-5	*_

# 14. TRANSPORT INFORMATION

DOT

Proper shipping name CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (53% Lactic Acid)

UN-No 3265
Hazard Class 8
Packing group III

TDG Not regulated

MEX Not regulated

ICAO Not regulated

IATA

**UN-No** 3265

Proper shipping name CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (53% Lactic Acid)

Hazard Class 8
Packing group III

IMDG/IMO

**UN-No** 3265

Proper shipping name CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (53% Lactic Acid)

Hazard Class 8
Packing group III

RID

**UN-No** 3265

Proper shipping name CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (53% Lactic Acid)

Hazard Class 8
Packing group III

<u>ADR</u>

UN-No 3265

Proper shipping name CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (53% Lactic Acid)

Hazard Class 8
Packing group III

ADN Not regulated

# 15. REGULATORY INFORMATION

**International Inventories** 

TSCA Complies
DSL/NDSL Complies
EINECS/ELINCS Complies
ENCS Complies
IECSC Complies

KECLCompliesPICCSCompliesAICSComplies

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

**ENCS** - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

**KECL** - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

#### **US 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	SARA 313 - Threshold Values %
Lactic acid	Not Established
50-21-5	
SARA 311/312 Hazard Categories	
Acute health hazard	Yes
Chronic Hoalth Hazard	No

Chronic Health Hazard

Fire hazard

Sudden release of pressure hazard

No
Reactive Hazard

No

## **CWA (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)

Chemical name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Lactic acid 50-21-5	Not Established	Not Established	Not Established	Not Established

# CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material

Chemical name	Hazardous Substances RQs	CERCLA/SARA RQ	RQ
Lactic acid	*-	Not Established	-
50-21-5			

# **US State Regulations**

# California Proposition 65

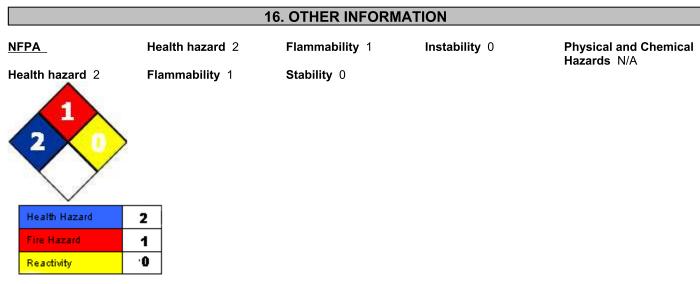
This product does not contain any Proposition 65 chemicals

Chemical name	California Proposition 65	
Lactic acid	Not Established	
50-21-5		

## **U.S. State Right-to-Know Regulations**

Chemical name	New Jersey	Massachusetts	Pennsylvania
Lactic acid	Not Established	Not Established	Not Established
50-21-5			

# CPSC (Consumer Product Safety Commission) - Specially Regulated Substances



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Disclaimer

The information provided on this SDS 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 Safety Data Sheet**