# SAFETY DATA SHEET **spectrum**<sup>®</sup>

Revision date 12-February-2024

1. Identification		
Product identifier		
Product Name	LACTIC ACID, 85 PERCENT, REAGENT, ACS	
Other means of identification		
Product Code(s)	L1005	
UN/ID no	UN3265	
Synonyms	None	
Recommended use of the chemica	l and restrictions on use	
Recommended use	No information available	
Restrictions on use	No information available	
Details of the supplier of the safety data sheet		
<u>Supplier Address</u> Spectrum Chemical Mfg. Corp. 14422 South San Pedro St. Gardena, CA 90248 (310) 516-8000		

Emergency telephone number

**Emergency Telephone** 

Chemtrec 1-800-424-9300

## 2. Hazard(s) identification

## Classification

Skin corrosion/irritation	Category 1
Serious eye damage/eye irritation	Category 1
Corrosive to metals	Category 1

Hazards not otherwise classified (HNOC) Not applicable

Label elements

Danger

Hazard statements Causes severe skin burns and eye damage

May be corrosive to metals



**Revision Number** 3



Physical state Liquid

Odor Slight Acrid

## **Precautionary Statements - Prevention**

Do not breathe dusts or mists Wash face, hands and any exposed skin thoroughly after handling Wear protective gloves/protective clothing/eye protection/face protection Keep only in original container

## **Precautionary Statements - Response**

Immediately call a POISON CENTER or doctor Specific treatment (see .? on this label) IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing Immediately call a POISON CENTER or doctor IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower Wash contaminated clothing before reuse IF INHALED: Remove person to fresh air and keep comfortable for breathing Immediately call a POISON CENTER or doctor IF SWALLOWED: Rinse mouth. Do NOT induce vomiting Absorb spillage to prevent material damage

## **Precautionary Statements - Storage**

Store locked up. Store in corrosive resistant/ .? container with a resistant inner liner

## **Precautionary Statements - Disposal**

Dispose of contents/container to an approved waste disposal plant

#### Other information

May be harmful if swallowed.

## 3. Composition/information on ingredients

#### Substance

Chemical name	CAS No	Weight-%
Lactic Acid Racemic	50-21-5	100

## 4. First-aid measures

#### **Description of first aid measures**

General advice	Show this safety data sheet to the doctor in attendance. Immediate medical attention is required.
Inhalation	Remove to fresh air. If breathing has stopped, give artificial respiration. Get medical attention immediately. Do not use mouth-to-mouth method if victim ingested or inhaled the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. If breathing is difficult, (trained personnel should) give oxygen. Delayed pulmonary edema may occur. Get immediate medical advice/attention.
Eye contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Keep eye wide open

	while rinsing. Do not rub affected area. Get immediate medical advice/attention.	
Skin contact	Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Get immediate medical advice/attention.	
Ingestion	Clean mouth with water and drink afterwards plenty of water. Never give anything by mouth to an unconscious person. Do NOT induce vomiting. Get immediate medical advice/attention.	
Self-protection of the first aider	Avoid contact with skin, eyes or clothing. Wear personal protective clothing (see section 8). Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination. Avoid direct contact with skin. Use barrier to give mouth-to-mouth resuscitation.	
Most important symptoms and effects, both acute and delayed		
Symptoms	Burning sensation.	
Indication of any immediate medical attention and special treatment needed		
Note to physicians	Product is a corrosive material. Use of gastric lavage or emesis is contraindicated. Possible perforation of stomach or esophagus should be investigated. Do not give chemical antidotes. Asphyxia from glottal edema may occur. Marked decrease in blood pressure may occur with moist rales, frothy sputum, and high pulse pressure.	

5. Fire-fighting measures	
Suitable Extinguishing Media	Use extinguishing measures that are appropriate to local circumstances and the

Large Fire	surrounding environment. CAUTION: Use of water spray when fighting fire may be inefficient.		
Unsuitable extinguishing media	Do not scatter spilled material with high pressure water streams.		
Specific hazards arising from the chemical	The product causes burns of eyes, skin and mucous membranes. Thermal decomposition can lead to release of irritating gases and vapors.		
Hazardous combustion products	Carbon monoxide. Carbon dioxide (CO2).		
Explosion data Sensitivity to mechanical impact none.			
Sensitivity to static discharge	none.		
Special protective equipment for fire-fighters	Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.		

# 6. Accidental release measures

Methods for cleaning up

## Personal precautions, protective equipment and emergency procedures

Personal precautions	Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. Use personal protective equipment as required. Attention! Corrosive material. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak.	
Other information	Refer to protective measures listed in Sections 7 and 8.	
Methods and material for containment and cleaning up   Methods for containment Prevent further leakage or spillage if safe to do so.		

Pick up and transfer to properly labeled containers.

## 7. Handling and storage

## Precautions for safe handling

Advice on safe handling	Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. In case of insufficient ventilation, wear suitable respiratory equipment. Handle product only in closed system or provide appropriate exhaust ventilation. Do not eat, drink or smoke when using this product. Take off contaminated clothing and wash before reuse.	
Conditions for safe storage, including any incompatibilities		
Storage Conditions	Keep containers tightly closed in a dry, cool and well-ventilated place. Protect from moisture. Store locked up. Keep out of the reach of children. Store away from other	

## 8. Exposure controls/personal protection

materials.

#### Control parameters

**Exposure Limits** The following ingredients are the only ingredients of the product above the cut-off level (or level that contributes to the hazard classification of the mixture) which have an exposure limit applicable in the region for which this safety data sheet is intended or other recommended limit. At this time, the other relevant constituents have no known exposure limits from the sources listed here.

### Appropriate engineering controls

Engineering controls	Showers Eyewash stations Ventilation systems.
Individual protection measures, su	ch as personal protective equipment
Eye/face protection	Tight sealing safety goggles. Face protection shield.
Hand protection	Wear suitable gloves. Impervious gloves.
Skin and body protection	Wear suitable protective clothing. Long sleeved clothing. Chemical resistant apron.
Respiratory protection	No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.
General hygiene considerations	Wear suitable gloves and eye/face protection. Do not eat, drink or smoke when using this product. Regular cleaning of equipment, work area and clothing is recommended. Avoid contact with skin, eyes or clothing. Remove and wash contaminated clothing and gloves, including the inside, before re-use. Contaminated work clothing should not be allowed out of the workplace. 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	viscous	
Color	Colorless light yellow	
Odor	Slight Acrid	
Odor threshold	No information available	

Property	<u>Values</u>	Remarks • Method
рН	no data available	None known
Melting point / freezing point	16.8 °C / 62.2 °F	None known
Boiling point / boiling range	122 °C / 251.6 °F	None known
Flash point	112.8 °C / 235 °F	None known
Evaporation rate	no data available	None known
Flammability (solid, gas)	no data available	None known
Flammability Limit in Air		None known
Upper flammability or explosive limits	No data available	
	No data available	
Lower flammability or explosive limits		
Vapor pressure	0 kPa @ 25°C	None known
Vapor density	no data available	None known
Relative density	1.2 @ 20°C	None known
Water solubility	Soluble in cold water	None known
-	Soluble in hot water	
Solubility(ies)	Partially soluble in diethyl ether	None known
	Practically insoluble in Chloroform	
	Practically insoluble in Petroleum Ether	
	Soluble in Alcohol	
Partition coefficient	-0.7	None known
Autoignition temperature	no data available	None known
Decomposition temperature		None known
Kinematic viscosity	no data available	None known
Dynamic viscosity	No data available	None known
Other information		
Explosive properties	No information available	
Oxidizing properties	No information available	
Softening point	No information available	
Molecular weight	90.10	
VOC Content (%)	No information available	
Liquid Density	No information available	
Bulk density	No information available	
Dum donoity		

## 10. Stability and reactivity

Reactivity	No information available.
Chemical stability	Stable under normal conditions.
Possibility of hazardous reactions	None under normal processing.
Conditions to avoid	Exposure to air or moisture over prolonged periods.
Incompatible materials	Oxidizing agent. Acids. Bases.

Hazardous decomposition products None known based on information supplied.

## 11. Toxicological information

## Information on likely routes of exposure

## **Product Information**

Inhalation

Specific test data for the substance or mixture is not available. Corrosive by inhalation. (based on components). Inhalation of corrosive fumes/gases may cause coughing, choking, headache, dizziness, and weakness for several hours. Pulmonary edema may occur with tightness in the chest, shortness of breath, bluish skin, decreased blood pressure, and increased heart rate. Inhaled corrosive substances can lead to a toxic edema of the lungs. Pulmonary edema can be fatal.

Eye contact	Specific test data for the substance or mixture is not available. Causes serious eye damage. (based on components). Corrosive to the eyes and may cause severe damage including blindness. May cause irreversible damage to eyes.	
Skin contact	Specific test data for the substance or mixture is not available. Corrosive. (based on components). Causes burns.	
Ingestion	Specific test data for the substance or mixture is not available. Causes burns. (based on components). Ingestion causes burns of the upper digestive and respiratory tracts. May cause severe burning pain in the mouth and stomach with vomiting and diarrhea of dark blood. Blood pressure may decrease. Brownish or yellowish stains may be seen around the mouth. Swelling of the throat may cause shortness of breath and choking. May cause lung damage if swallowed. May be fatal if swallowed and enters airways.	
Symptoms related to the physical, chemical and toxicological characteristics		
Symptoms	Redness. Burning. May cause blindness. Coughing and/ or wheezing.	

Acute toxicity

Numerical measures of toxicity

## **Component Information**

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Lactic Acid Racemic	= 3543 mg/kg (Rat)	> 2 g/kg (Rabbit)	>7.940 mg/l (rat, 4 hr)
50-21-5			

## Delayed and immediate effects as well as chronic effects from short and long-term exposure

Skin corrosion/irritation	Classification based on data available for ingredients. Causes burns.
Serious eye damage/eye irritation	Classification based on data available for ingredients. Risk of serious damage to eyes. Causes burns.
Respiratory or skin sensitization	No information available.
Germ cell mutagenicity	No information available.
Carcinogenicity	No information available.
Reproductive toxicity	No information available.
STOT - single exposure	No information available.
STOT - repeated exposure	No information available.
Aspiration hazard	No information available.
Other adverse effects	No information available.
Interactive effects	No information available.

12. Ecological information		
Ecotoxicity	The environmental impact of this product has not been fully investigated.	
Persistence and degradability	No information available.	
Bioaccumulation	Inherently biodegradable.	

E.

No information available.

13. Disposal considerations		
Waste treatment methods		
Waste from residues/unused products	Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.	
Contaminated packaging	Do not reuse empty containers.	

# 14. Transport information

DOT UN/ID no Proper shipping name Hazard class Special Provisions Special Provisions Marine Pollutant Description Emergency Response Guide Number	UN3265 Corrosive liquid, acidic, organic, n.o.s. 8 III 386, IB3, T7, TP1, TP28 Severe Marine Pollutant UN3265, Corrosive liquid, acidic, organic, n.o.s., 8, III 153
<u>TDG</u> UN/ID no. Proper shipping name Hazard class Packing Group Special Provisions Description	UN3265 Corrosive liquid, acidic, organic, n.o.s. 8 III 16 UN3265, Corrosive liquid, acidic, organic, n.o.s., 8, III
MEX UN-No Proper Shipping Name Hazard class Special Provisions Packing Group Description	UN3265 Corrosive liquid, acidic, organic, n.o.s. 8 223, 274 III UN3265, Corrosive liquid, acidic, organic, n.o.s., 8, III
<u>ICAO (air)</u> UN/ID no. Hazard class Packing Group Special Provisions	UN3265 8 III A3
IATA UN number Hazard Class Packing group Emergency Response Guide Number Special Provisions	UN3265 8 III 8L A3, A803
IMDG UN number Hazard Class Packing group EmS-No Special Provisions	UN3265 8 III F-A, S-B 223, 274

Marine Pollutant	NP1
RID UN number Proper shipping name Hazard Class Packing group Classification code Special Provisions Description Labels	UN3265 CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. 8 III C3 274 UN3265, CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S., 8, III 8
ADR UN number Proper shipping name Hazard Class Packing group Classification code Tunnel restriction code Special Provisions Description Labels	UN3265 Corrosive liquid, acidic, organic, n.o.s. 8 III C3 (E) 274 UN3265, Corrosive liquid, acidic, organic, n.o.s., 8, III, (E) 8
ADN UN/ID No Proper shipping name Hazard Class Packing Group Classification code Special Provisions Description Hazard label(s) Limited quantity (LQ) Equipment Requirements	UN3265 Corrosive liquid, acidic, organic, n.o.s. 8 III C3 274 UN3265, Corrosive liquid, acidic, organic, n.o.s., 8, III 8 5 L PP, EP

## 15. Regulatory information

International Inventories

TSCA

Complies

DSL/NDSL	Complies
EINECS/ELINCS	Complies
ENCS	This product complies with ENCS:
IECSC	This product complies with China:
KECL	Complies
PICCS	Complies
AICS	All the constituents of this material are listed on the Australian Inventory of Chemical
	Substances (AICS).

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

## 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.

### SARA 311/312 Hazard Categories

Should this product meet EPCRA 311/312 Tier reporting criteria at 40 CFR 370, refer to Section 2 of this SDS for appropriate classifications.

#### 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).

## **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.

## US State Regulations

#### **California Proposition 65**

This product does not contain any Proposition 65 chemicals.

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

This product does not contain any substances regulated under applicable state right-to-know regulations

## U.S. EPA Label Information

EPA Pesticide Registration Number Not applicable

## 16. Other information

NFPA Health hazards 3 Flammability 1 Instability 0 Physical and chere <u>HMIS</u> Health hazards 3 Flammability 1 Physical hazards Personal protection	nical properties -		
	abbreviations and acronyms used in the second secon		STEL (Short Term Exposure Limit)
Key literature references and sources for data used to compile the SDS   Agency for Toxic Substances and Disease Registry (ATSDR)   U.S. Environmental Protection Agency ChemView Database   European Food Safety Authority (EFSA)   EPA (Environmental Protection Agency)   Acute Exposure Guideline Level(s) (AEGL(s))   U.S. Environmental Protection Agency Federal Insecticide, Fungicide, and Rodenticide Act   U.S. Environmental Protection Agency High Production Volume Chemicals   Food Research Journal   Hazardous Substance Database   International Uniform Chemical Information Database (IUCLID)			

Japan GHS Classification Australia National Industrial Chemicals Notification and Assessment Scheme (NICNAS) NIOSH (National Institute for Occupational Safety and Health) National Library of Medicine's ChemID Plus (NLM CIP) National Library of Medicine's PubMed database (NLM PUBMED) National Toxicology Program (NTP) New Zealand's Chemical Classification and Information Database (CCID) Organization for Economic Co-operation and Development Environment, Health, and Safety Publications Organization for Economic Co-operation and Development High Production Volume Chemicals Program Organization for Economic Co-operation and Development Screening Information Data Set World Health Organization

Revision date	12-February-2024
Revision Note	No information available.
Disclaimer	

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.

## End of Safety Data Sheet