

## **Safety Data Sheet**

# Lactic Acid FCC 88, FCC Special 88

#### 1. PRODUCT AND COMPANY IDENTIFICATION

Product Name: Lactic Acid FCC 88, FCC Special 88

Synonyms/Generic Names: (S)-2-Hydroxypropionic acid, Sarcolactic acid

**Product Number: 9480** 

Product Use: Industrial, Manufacturing or Laboratory use

Manufacturer: Columbus Chemical Industries, Inc.

N4335 Temkin Rd. Columbus, WI. 53925

For More Information: 920-623-2140 (Monday-Friday 8:00-4:30)

www.columbuschemical.com

In Case of Emergency Call: CHEMTREC - 800-424-9300 or 703-527-3887 (24 Hours/Day, 7 Days/Week)

#### 2. HAZARDS INDENTIFICATION

Signal Words: Danger

**Pictograms:** 



#### **GHS Classification**

Skin irritation	Category 2
Serious eye damage	Category 1

#### **GHS Label Elements, including precautionary statements:**

#### **Hazard Statements:**

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	H315	Causes skin irritation.	
	H318	Causes serious eye damage.	

#### **Precautionary Statements:**

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P264	Wash hands thoroughly after handling.	
P280 Wear protective gloves/eye protection/face protection.		
P302+P352	IF ON SKIN: Wash with plenty of water.	
	IF IN EYES: Rinse cautiously with water for several minutes. Remove	
P305+P351+P338	contact lenses, if present and easy to do. Continue rinsing.	
P310	Immediately call a POISON CENTER/doctor/physician.	
P332+P313	If skin irritation occurs: Get medical advice/attention.	
P362+P364	Take off contaminated clothing and wash it before reuse.	

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#### **Potential Health Effects**

Eyes	Causes eye burns.	
Inhalation Causes respiratory tract irritation.		
Skin Causes skin irritation.		
Ingestion May be harmful if swallowed.		

#### **NFPA Ratings**

Health	3
Flammability	1
Reactivity	0
Specific hazard	Not Available

#### **HMIS Ratings**

Health	3
Fire	1
Reactivity	0

#### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Component	Weight %	CAS#	EINECS# / ELINCS#	Formula	Molecular Weight
(L+) Lactic Acid	88-89	79-33-4	201-196-2	C <sub>3</sub> H <sub>6</sub> O <sub>3</sub>	90.08 g/mol

## 4. FIRST-AID MEASURES

Eyes	Rinse with plenty of water for at least 15 minutes and seek medical attention immediately.		
Inhalation	Move casualty to fresh air and keep at rest. If breathing is difficult, give oxygen. If not		
	breathing, give artificial respiration. Get medical attention immediately.		
Skin	Flush with plenty of water for at least 15 minutes while removing contaminated clothing and		
	wash using soap. Get medical attention immediately.		
Ingestion	Do Not Induce Vomiting! Never give anything by mouth to an unconscious person. If		
_	conscious, wash out mouth with water. Get medical attention immediately.		

#### **5. FIREFIGHTING MEASURES**

Suitable (and unsuitable) extinguishing media	Product is flammable. Use water, dry chemical, foam, or carbon dioxide on fires involving this product. Use appropriate media for adjacent fire. Cool containers with water, keep away from common metals.
Special protective equipment and precautions for firefighters	Wear self-contained, approved breathing apparatus and full protective clothing, including eye protection and boots.
Specific hazards arising from the chemical	Emits toxic fumes (carbon oxides) under fire conditions. (See also Stability and Reactivity section)

## **6. ACCIDENTAL RELEASE MEASURES**

Personal precautions, protective equipment and emergency procedures	See section 8 for recommendations on the use of personal protective equipment.
Environmental precautions	Prevent spillage from entering drains. Any release to the environment may be subject to a federal/national or local reporting requirements.
Methods and materials for containment and cleaning up	Neutralize spill with sodium bicarbonate or lime. Absorb spill with noncombustible absorbent material, then place in a suitable container for disposal. Clean surfaces thoroughly with water to remove residual

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contamination. Dispose of all waste and cleanup materials in
accordance with regulations.

#### 7. HANDLING AND STORAGE

#### Precautions for safe handling

See section 8 for recommendations on the use of personal protective equipment. Use with adequate ventilation. Wash thoroughly after using. Keep container closed when not in use.

#### Conditions for safe storage, including any incompatibilities

Store in cool, dry well ventilated area. Keep away from incompatible materials (see section 10 for incompatibilities).

#### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Occupational exposure controls: Contains no substances with occupational exposure limit values.

#### **Personal Protection**

Eyes	Wear chemical safety glasses or goggles, and face shield.	
Inhalation	Provide local exhaust, preferably mechanical. If exposure levels are excessive, use an approved respirator.	
Skin	Wear nitrile or rubber gloves, and full body covering. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.	
Other	Not Available	

#### **Other Recommendations**

Provide eyewash stations, quick-drench showers and washing facilities accessible to areas of use and handling. Have supplies and equipment for neutralization and running water available.

#### 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance (physical state, color, etc.)	Colorless to slight yellow-brown liquid.
Odor	Not Available
Odor threshold	Not Available
pH	2
Melting point/freezing point	Not Available
Initial boiling point and boiling range	125°C (257°F)
Flash point	110°C (230°F)
Evaporation rate	Not Available
Flammability (solid, gas)	Flammable
Upper/lower flammability or explosive limit	Not Explosive
Vapor pressure	Not Available
Vapor density	Not Available
Relative density	1.20-1.22 g/mL
Solubility (ies)	Completely soluble in water
Partition coefficient: n-octanol/water	Not Available
Auto-ignition temperature	Not Available
Decomposition temperature	Not Available

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### 10. STABILITY AND REACTIVITY

Chemical Stability	Stable	
Possibility of Hazardous Reactions	Will not occur.	
Conditions to Avoid	Extremes of temperature, open flames, sparks, sources of ignition.	
Incompatible Materials	Moisture, bases, organic materials, metals, carbides, cyanides, chlorates, nitrates, picrates, permanganate, peroxides, zinc iodide, azides, perchlorates, phosphorus.	
Hazardous Decomposition Products	Carbon oxides.	

## 11. TOXICOLOGICAL INFORMATION

#### **Acute Toxicity**

Lactic Acid

Skin	LD50 Dermal- rabbit- >2,000 mg/kg
Eyes	Eyes- rabbit- Severe eye irritation- Draize test
Respiratory	Not Available
Ingestion	LD50 Oral – rat- 3,543 mg/kg

Carcinogenicity

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

Signs & Symptoms of Exposure

Skin	Burning, itching, redness, inflammation and/or swelling of exposed tissues.
Eyes	Eye burns, watering eyes.
Respiratory	Burning, choking, coughing, wheezing, laryngitis, shortness of breath, headache or
	nausea.
Ingestion	Burning, choking, nausea, vomiting and severe pain.

Chronic Toxicity	Not Available
Teratogenicity	Not Available
Mutagenicity	Not Available
Embryotoxicity	Not Available
Specific Target Organ Toxicity	Not Available
Reproductive Toxicity	Not Available
Respiratory/Skin Sensitization	Not Available

## 12. ECOLOGICAL INFORMATION

#### **Ecotoxicity**

Lactic Acid

Aquatic Vertebrate	Not Available
Aquatic	EC50 Daphnia magna (Water flea)- 180-320 mg/l – 48 h
Invertebrate	

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Terrestrial	Mortality NOEC- Pseudokirchneriella subcapitata- 320 mg/l -96 h	
	EC50- Pseudokirchneriella subcapitata (green algae)- >2,800 mg/l- 84 h	

Persistence and Degradability	Readily biodegradable
Bioaccumulative Potential	Not Available
Mobility in Soil	Completely soluble
PBT and vPvB Assessment	Not Available
Other Adverse Effects	Not Available

#### 13. DISPOSAL CONSIDERATIONS

Waste Product or Residues	Users should review their operations in terms of the applicable federal/national or local regulations and consult with appropriate regulatory agencies if necessary before disposing of waste product or residue.	
Product Containers	Users should review their operations in terms of the applicable federal/national or local regulations and consult with appropriate regulatory agencies if necessary	
	before disposing of waste product container.	

The information offered in section 13 is for the product as shipped. Use and/or alterations to the product may significantly change the characteristics of the material and alter the waste classification and proper disposal methods.

#### 14. TRANSPORTATION INFORMATION

US DOT	UN3265, Corrosive liquid, acidic, organic, n.o.s., (lactic acid), 8, pg III
TDG	UN3265, CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S., (LATIC ACID),
	8, pg III
IMDG	UN3265, CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S., (LATIC ACID),
	8, pg III
Marine Pollutant	No
IATA/ICAO	UN3265, Corrosive liquid, acidic, organic, n.o.s., (lactic acid), 8, pg III

## 15. REGULATORY INFORMATION

TSCA Inventory Status	All ingredients are listed on the TSCA Active inventory.
DSL / NDSL	All ingredients are listed on the DSL inventory.
California Proposition 65	Not Listed
Rhode Island: Hazardous Substance List	Not Listed
Massachusetts: Toxic or Hazardous Substance List,	Not Listed
Right to Know	
Pennsylvania: Hazardous Substance List	Not Listed
New Jersey: Right to Know Hazardous Substance	Not Listed
List	
SARA 302	Not Listed
SARA 304	Not Listed
SARA 311	Acute Health Hazard.
SARA 312	Acute Health Hazard.
SARA 313	Not Listed
WHMIS Canada	Class D2B: Poisonous and infectious material -
	Other effects – Toxic.
	Class E: Corrosive material.

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#### 16. OTHER INFORMATION

Revision	Date
Original	08/12/2011
Revision 1	10/21/2013
Revision 2	03/11/2015
Revision 3	09/13/2021

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