

# Safety Data Sheet

Lactic Acid 20%

Revision Date: 1/1/2020

## 1. PRODUCT AND COMPANY IDENTIFICATION

**Product name:** Lactic Acid, 20%  
**Product code:** 400760

**Supplier:** EDM 3, LLC  
3611 St Johns Bluff Road South, Suite 1  
Jacksonville, FL 32224  
800-638-2625

**Synonym:** None.  
**Material uses:** Laboratory Reagent.  
**Validation date:** 1/1/2020

**In case of a medical emergency or a spill, call:** INFOTRAC at 1-800-535-5053 (Domestic within the USA and Canada)  
or 1-352-323-3500 (International callers may call collect), 24

hours/day,

7 days/week.

## 2. HAZARDS IDENTIFICATION

### Emergency Overview

Target Organs: Skin, eyes, mucous membrane

### GHS Labeling, Pictograms



**Signal word: Danger!**

### Hazard statement(s):

- H302:** Harmful if swallowed (Cat 4)
- H332:** Harmful if inhaled (Cat 4)
- H315:** Causes skin irritation (Cat 2)
- H320:** Causes serious eye damage (Cat 1)

### Precautionary statement(s):

- P305+351+338:** If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P260:** Do not breathe vapors/ spray.
- P262:** Wash ... thoroughly after handling.
- P280:** Wear protective gloves/protective clothing/eye protection/face protection

### OSHA Hazards

Not available

### GHS Classification

Eye irritation (Category 1)  
Skin irritation (Category 2)

### NFPA

Health Hazard: 2  
Fire: 0

### HMIS Classification

Health Hazard: 2  
Flammability: 0

Reactivity: 0

Physical hazards: 0

### Potential Health Effects

Inhalation - Harmful if inhaled. Causes respiratory tract irritation, may cause systemic effects.

Skin – Causes skin burns, redness, and pain.

Eyes - Causes eye burns, redness, pain, may cause chemical conjunctivitis and corneal damage.

Ingestion - Harmful if swallowed.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Name	CAS number	% v/v
Lactic Acid	50-21-5	20
Water	7732-18-5	Balance

### 4. FIRST AID MEASURES

<b>Eye contact:</b>	Check for and remove any contact lenses. Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical attention immediately.
<b>Skin contact:</b>	In case of contact, flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. Clean shoes thoroughly before reuse. Get medical attention immediately.
<b>Inhalation:</b>	Move exposed person to fresh air. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention immediately.
<b>Ingestion:</b>	Wash out mouth with water. Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention immediately.

### 5. FIRE-FIGHTING MEASURES

<b>Flammability of the product:</b>	Non-Flammable
<b>Extinguishing media:</b>	Use dry chemical, CO <sub>2</sub> , water spray (fog) or foam.
<b>Not suitable:</b>	Do not use water jet.
<b>Special exposure hazards:</b>	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.
<b>Hazardous thermal decomposition products:</b>	Decomposition products may include the following materials: Carbon oxides
<b>Special protective equipment for fire-fighters:</b>	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus(SCBA) with a full face-piece operated in positive pressure mode.

### 6. ACCIDENTAL RELEASE MEASURES

<b>Personal precautions:</b>	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Shut off all ignition sources. No flames, smoking or flames in hazard area. Do not breathe vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment (see Section 8).
<b>Environmental precautions:</b>	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
<b>Spill:</b>	Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see section 13). Use spark-proof tools and explosion-proof equipment. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see section 1 for emergency contact information and section 13 for waste disposal. Dilute with water and mop up if water-soluble or absorb with an inert dry material and place in an appropriate waste disposal container.

### 7. HANDLING AND STORAGE

**Handling:** Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use non-sparking tools. Take precautionary measures against electrostatic discharges. To avoid fire or explosion, dissipate static electricity during transfer by grounding and bonding containers and equipment before transferring material. Use empty containers to retain product, residue can be hazardous. Do not reuse container.

**Storage:** Store in accordance with local regulations. Store in a segregated and approved area. Store in original container, protected from direct sunlight. Eliminate all ignition sources. Separate from oxidizing materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Consult local authorities for acceptable exposure limits

**Engineering measures:** Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.

ACGIH	NIOSH	OSHA
None listed	None listed	None listed

**Hygiene measures:** Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

### Personal protection Respiratory:

Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

**Hands:** Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Recommended: neoprene

**Eyes:** Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists or dusts. Recommended: splash goggles

**Skin:** Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. Recommended: lab coat

### Environmental exposure controls:

Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Physical state:</b>	Liquid.	<b>Color:</b>	Clear
<b>Flash Point:</b>	Not available.	<b>Odor:</b>	Odorless
<b>pH:</b>	Not available.	<b>Boiling/condensation point:</b>	~250°F
<b>Melting/freezing point:</b>	Not available.	<b>Relative density:</b>	Not available.
<b>Vapor pressure:</b>	Not available.	<b>Vapor density:</b>	Not available
<b>Odor threshold:</b>	Not available.	<b>Evaporation rate:</b>	Not available
<b>VOC:</b>	Not available.		
<b>Solubility:</b>	Soluble in the following materials: water		

## 10. STABILITY AND REACTIVITY

**Chemical stability:** The product is stable under recommended storage conditions.

**Possibility of hazardous reactions:** Under normal conditions of storage and use, hazardous reactions will not occur.

**Hazardous polymerization:** Under normal conditions of storage and use, hazardous polymerization will not occur.

**Conditions to avoid:** Nitric Acid exposure.

**Materials to avoid:** Nitric Acid

**Hazardous decomposition** Under normal conditions of storage and use, hazardous decomposition products should Not be produced. Under fire conditions, oxides of carbon

**Conditions of reactivity:** Under normal conditions of storage and use, hazardous reactions will not occur.

## 11. TOXICOLOGICAL INFORMATION

Principle Routes of Exposure: Skin, Eyes, and Respiratory Tract

### Acute toxicity

#### Oral LD50

Rat, 3730 mg/kg

Mouse, 4875 mg/kg

#### Inhalation LC50

Not available

#### Dermal LD50

Rabbit >2000 mg/kg

### Other information on acute toxicity

no data available

**Ingestion:** Ingestion of this product may irritate the gastric tract causing nausea and vomiting.

**Skin:** Irritating to skin resulting in redness and itching.

**Inhalation:** Irritation to respiratory system. Inhalation of product vapors will cause irritation of the nose, throat, and respiratory system.

**Eye Contact:** Risk of serious damage to eyes. Eye contact will cause stinging, burning, tearing, severe pain and possible permanent corneal damage.

**Carcinogenicity:** IARC, not classifiable as to humans (Phenol). NTP, No component of this product at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen. OSHA, No component of this product at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen

**Mutagenicity:** No known significant effects or critical hazards except possibly in laboratory animals.

**Teratogenicity:** No known significant effects or critical hazards except possibly in laboratory animals.

**Reproductive:** No known significant effects or critical hazards except possibly in laboratory animals.

## 12. ECOLOGICAL INFORMATION

### Toxicity

Not available

### Persistence and degradability

Readily biodegradable

### Bioaccumulative potential

None

### Mobility in soil

Surface tension: 50-44 nM (50-90% solution)

### PBT and vPvB assessment

no data available

### Other adverse effects

no data available

## 13. DISPOSAL CONSIDERATIONS

The information presented only applies to the material as supplied. The identification based on characteristic(s) or listing may not apply if the material has been used or otherwise contaminated. It is the responsibility of the waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste identification and disposal methods in compliance with applicable regulations. Disposal should be in accordance with applicable regional, national and local laws and regulations.

## 14. TRANSPORT INFORMATION

### DOT (US)

Not dangerous goods

### IMDG

Not dangerous goods

### IATA

Not dangerous goods

## 15. REGULATORY INFORMATION

### United States

**HCS Classification:** Irritating material,

### U.S. Federal regulations:

**United States Inventory:** TSCA (Toxic Substance Control Act): This product is not listed on the TSCA Inventory.

**SARA 302/304/311/312 extremely hazardous substances:** No products were found.

**SARA 302/304 emergency planning and notification:** No products were found.

**SARA 302/304/311/312 hazardous chemicals:**

**SARA 311/312 MSDS distribution - chemical inventory - hazard identification:**

**Clean Air Act (CAA) 112 accidental release prevention:** No products were found.

Clean Air Act (CAA) 112 regulated flammable substances: No products were found.

Clean Air Act (CAA) 112 regulated toxic substances: No products were found.

### DEA List I & II Chemicals

**(Precursor Chemicals):** Not listed

**RTK:** Acetone, CAS 50-21-5, CA, PA, MN, FL, NJ

### Connecticut Carcinogen Reporting:

None of the components are listed.

### Connecticut Hazardous Material Survey:

None of the components are listed.

### Florida substances:

None of the components are listed.

### Illinois Chemical Safety Act:

None of the components are listed.

### Illinois Toxic Substances

### Disclosure to Employee Act:

None of the components are listed.

### Louisiana Spill:

None of the components are listed.

### Louisiana Reporting:

None of the components are listed.

### Massachusetts Spill:

None of the components are listed.

### Massachusetts Substances:

The following components are listed:

### Minnesota Hazardous Substances:

None of the components are listed.

### Michigan Critical Material:

None of the components are listed.

### New Jersey Toxic Catastrophe Prevention

None of the components are listed.

### New Jersey Spill:

None of the components are listed.

### New Jersey Hazardous Substances:

The following components are listed:

### New York Toxic Chemical Release Reporting:

None of the components are listed.

### New York Acutely Hazardous Substances:

The following components are listed:

### Pennsylvania RTK Hazardous Substances:

The following components are listed:

### Rhode Island Hazardous Substances:

None of the components are listed.

### California Prop. 65

None of the components are listed

### CANADA

### WHMIS (Canada):

Class E

### Canadian lists:

**CEPA Toxic substances:** None of the components are listed.

**Canadian ARET:** None of the components are listed.

**Canadian NPRI:** The following components are listed:

**Alberta Designated Substances:** None of the components are listed.

**Ontario Designated Substances:** None of the components are listed.

**Quebec Designated Substances:** None of the components are listed.

### CEPA DSL / CEPA NDSL:

All components are listed or exempted.

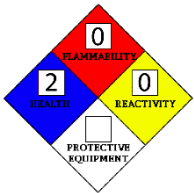
*This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.*

**International regulations**  
**International lists:**

**Australia inventory (AICS):** All components are listed or exempted.  
**China inventory (IECSC):** All components are listed or exempted.  
**Japan inventory:** All components are listed or exempted.  
**Korea inventory:** All components are listed or exempted.  
**New Zealand Inventory of Chemicals (NZIoC):** All components are listed or exempted.  
**Philippines inventory (PICCS):** All components are listed or exempted.

## 16. OTHER INFORMATION

### National Fire Protection Association (U.S.A.)



**Notice to reader**

The above information is believed to be correct but does not purport to be all-inclusive and shall be used only as a guide. EDM3 shall not be liable for any damage resulting from handling of contact with this product.