

SAFETY DATA SHEET

Version 5

1. Identification of the Substance / Preparation and of the Company / Undertaking

Product Name Lactic Acid 88% FG

Product Code 32764 UN/ID No UN3265

Recommended Use Industrial, Manufacturing or Laboratory use.

Restrictions on Use None known

Manufacturer

Hawkins, Inc., 2381 Rosegate, Roseville, MN 55113 (612-331-6910)

Emergency Telephone:

CHEMTREC (US): 1-800-424-9300

2. Hazards Identification

GHS - Classification

Skin corrosion/irritation	Category 2
Serious eye damage/eye irritation	Category 1
Corrosive to metals	Category 1

Hazards not otherwise classified (HNOC)

Not applicable

Label elements



Signal Word: Danger

Hazard Statements:

- · Causes skin irritation
- · Causes serious eye damage
- May be corrosive to metals

Precautionary Statements:

- · Wash face, hands and any exposed skin thoroughly after handling
- · Keep only in original container
- Wear protective gloves and eye/face protection
- 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/physician
- IF ON SKIN: Wash with plenty of soap and water
- If skin irritation occurs: Get medical advice/attention
- · Take off contaminated clothing and wash before reuse
- Absorb spillage to prevent material damage
- P406 Store in corrosion resistant container with a resistant inner liner

3. Composition / Information on Ingredients

Chemical name	CAS No.	Weight-%		
(S)-Lactic Acid	79-33-4	87.1-92.4		
Water	7732-18-5	Balance		

Any concentration shown as a range is due to batch variation or the exact percentage has been withheld as a trade secret.

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

Inhalation Remove to fresh air. Get medical attention immediately if symptoms occur.

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.

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

attention if irritation develops and persists.

Ingestion Clean mouth with water and drink afterwards plenty of water. Never give anything by mouth

to an unconscious person. Do NOT induce vomiting. Call a physician.

CAUTION: Use of water spray when fighting fire may be inefficient.

Do not scatter spilled material with high pressure water streams.

Self-protection of the first aider Avoid contact with skin, eyes or clothing. Wear personal protective clothing (see section 8).

Most important symptoms and effects, both acute and delayed

Burning. Redness. May cause redness and tearing of the eyes. May cause blindness. **Symptoms**

Indication of any immediate medical attention and special treatment needed

Treat symptomatically. Note to physicians

5. Fire-fighting Measures

Suitable Extinguishing Media Use extinguishing measures that are appropriate to local circumstances and the

surrounding environment.

No information available.

Large Fire Unsuitable extinguishing media

Specific hazards arising from the

chemical **Explosion Data**

Sensitivity to mechanical impact None.

Sensitivity to static discharge

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

Personal precautions, protective equipment and emergency procedures

Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. Use personal **Personal precautions**

protective equipment as required.

Refer to protective measures listed in Sections 7 and 8. Other information

Methods and material for containment and cleaning up

Methods for containment Prevent further leakage or spillage if safe to do so.

Methods for cleaning up Dike far ahead of liquid spill for later disposal. Soak up with inert absorbent material (e.g.

sand, silica gel, acid binder, universal binder, sawdust). Pick up and transfer to properly labeled containers. Clean contaminated surface thoroughly. After cleaning, flush away

traces with water.

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. 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

materials.

Oxidizing agent. Strong acids. Strong bases. Incompatible materials

8. Exposure Controls / Personal Protection

Control parameters

Exposure Limits This product, as supplied, does not contain any hazardous materials with occupational

exposure limits established by the region specific regulatory bodies.

Appropriate engineering controls

Showers **Engineering controls**

> **Evewash stations** Ventilation systems.

Individual protection measures, such as personal protective equipment

Eye/face protection Tight sealing safety goggles.

Wear suitable gloves. Impervious gloves. Hand protection

Skin and body protection Wear suitable protective clothing. Long sleeved clothing.

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.

Do not allow into any sewer, on the ground or into any body of water. Prevent product from **Environmental exposure controls**

entering drains.

General hygiene considerations Wear suitable gloves and eve/face protection. Do not eat, drink or smoke when using this

product. Regular cleaning of equipment, work area and clothing is recommended. Avoid

No information available

contact with skin, eyes or clothing.

9. Physical and Chemical Properties

9.1. Information on basic physical and chemical properties

Physical State: Liquid Appearance: Clear Odor: Slight, Pungent

No information available Color: Colorless to light yellow **Odor Threshold:**

Remarks • Method **Property** Values

No information available pH: No information available

Salt Out Point:

Melting Point/Freezing Point: < -80 °C / -112 °F

Boiling Point/Boiling Range:

Flash Point: No information available Evaporation Rate (BuAc=1): No information available Flammability (solid, gas) No information available

Flammability Limits in Air: No information available **Upper Flammability Limit:** Lower Flammability

Limit: Vapor Pressure (mm Hg): No information available Vapor density (Air =1) No information available

Specific Gravity (H2O=1): 1.2

Specific Gravity (2nd value):

Water Solubility: Miscible in water

Solubility(ies): No information available **Partition Coefficient** No information available

(n-octanol/water)

Autoignition Temperature: No information available **Decomposition Temperature:** No information available **Kinematic Viscosity:** No information available **Dynamic Viscosity:** No information available

Oxidizing Properties: No information available

Explosive Properties: Not considered to be an explosion hazard

9.2. Other information

Softening Point: No information available

Molecular Weight: 90.08

VOC Content(%):

Liquid Density

Bulk density

No information available
No information available
No information available

10. Stability and Reactivity

Reactivity

Chemical stability

Possibility of hazardous reactions

No information available.

Stable under normal conditions.

None under normal processing.

Conditions to avoid Exposure to air or moisture over prolonged periods. Extremes of temperature and direct

sunlight

Incompatible materialsOxidizing agent. Strong acids. Strong bases. **Hazardous decomposition products** Carbon monoxide. Carbon dioxide (CO₂).

11. Toxicological Information

Information on likely routes of exposure

Product Information

Inhalation Specific test data for the substance or mixture is not available. May cause irritation of

respiratory tract.

Eye contact Specific test data for the substance or mixture is not available. Severely irritating to eyes.

Causes serious eye damage. May cause burns. May cause irreversible damage to eyes.

(based on components).

Skin contact Specific test data for the substance or mixture is not available. Causes skin irritation. (based

on components).

Ingestion Specific test data for the substance or mixture is not available. Ingestion may cause

gastrointestinal irritation, nausea, vomiting and diarrhea.

Symptoms related to the physical, chemical and toxicological characteristics

Symptoms Redness. Burning. May cause blindness. May cause redness and tearing of the eyes.

Numerical measures of toxicity

No information available

Acute Toxicity:

The following values are calculated based on chapter 3.1 of the GHS document .

 ATEmix (oral)
 4,036.80 mg/kg

 ATEmix (dermal)
 2,166.70 mg/kg

Unknown Acute toxicity 92.4 % of the mixture consists of ingredient(s) of unknown toxicity

0 % of the mixture consists of ingredient(s) of unknown acute oral toxicity 0 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity

92.4 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas)

92.4 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor) 92.4 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist)

Component Information

Component intermation					
Chemical name	Oral LD50:	Dermal LD50:	LC50 (Lethal Concentration):		
(S)-Lactic Acid 79-33-4	= 3730 mg/kg (Rat)	> 2000 mg/kg (Rabbit)	-		
Water 7732-18-5	> 90 mL/kg(Rat)	-	-		

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

Skin corrosion/irritationClassification based on data available for ingredients. Irritating to skin.

Serious eye damage/eye irritation Classification based on data available for ingredients. Causes burns. Risk of serious

damage to eyes.

Respiratory or skin sensitization No information available.

Germ cell mutagenicity No information available.

Carcinogenicity This product does not contain any carcinogens or potential carcinogens as listed by OSHA,

IARC or NTP.

Reproductive toxicity No information available.

STOT - single exposure No information available.

STOT - repeated exposureNo information available.

Other Adverse Effects: No information available.
Aspiration hazard No information available.

12. Ecological Information

Ecotoxicity The environmental impact of this product has not been fully investigated.

=00:00:0::	The difficulties impact of time product has not been faily introdugated.						
Chemical name Toxicity to algae		Toxicity to fish	Toxicity to	Toxicity to daphnia and			
			microorganisms	other aquatic			
				invertebrates			
(S)-Lactic Acid	-	320: 96 h Brachydanio	-	240: 48 h Daphnia			
79-33-4		rerio mg/L LC50		magna mg/L EC50 180 -			
		semi-static 100 - 180: 96		320: 48 h Daphnia			
		h Lepomis macrochirus		magna mg/L EC50 Static			
		mg/L LC50 static 100 -					
		180: 96 h Oncorhynchus					
		mykiss mg/L LC50 static					

Persistence and Degradability: No information available.

Bioaccumulation: There is no data for this product.

Component Information

Chemical name	Partition Coefficient:
(S)-Lactic Acid	-0.62
79-33-4	

Other Adverse Effects: No information available.

13. Disposal Considerations

Waste treatment methods

Waste from residues/unused

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

products

Proper shipping name CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (LACTIC ACID)

Hazard Class

8

UN/ID No UN3265
Packing Group II

Description UN3265, CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (LACTIC ACID), 8, PG II



15. Regulatory Information

International Inventories

AICS Complies **TSCA** Complies **DSL/NDSL** Complies Complies **EINECS/ELINCS ENCS** Complies Complies **IECSC KECL** Complies **PICCS** Complies

Chemical name	AICS	TSCA	DSL	NDSL	EINECS	ELINCS	ENCS	IECSC	KECL	PICCS
(S)-Lactic Acid	Present	Present ACTIVE	Present	-	Present	-	Present	Present [28382]	Present	Present
Water	Present	Present ACTIVE	Present	-	Present	-	Present	Present [32224]	Present	Present

Inventory Legend

AICS - Australian Inventory of Chemical Substances

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

RESTRICTIONS - REACH TITLE VII No information available

US Federal Regulations

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

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

Acute health hazard Yes
Chronic health hazard No

32764 Lactic Acid 88% FG

Fire hazard No Sudden release of pressure hazard No Reactive hazard No

16. Other Information

Prepared By: HSE Department

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Revision Note: Reviewed and Re-issued

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