HARRIS FILTERS
LACTIC ACID POWDER

MATERIAL SAFETY DATA SHEET

1. Identification of the substance/preparation and of the company

Product Name: Lactic Acid Powder

Company Identification:
Harris Filters
42 & 43 Zoar Street
Lower Gornal
Dudley
West Midlands
DY3 2PA, UK
Tel: 01384 253073

2. Composition/Information on ingredients

INGREDIENT NAME	CONTENTS	CAS No	EC No
Lactic Acid	58-62%	79-33-4	201-196
Calcium Lactate	35-40%	38305-25-1	248-953-3
Silicon Dioxide	<3%	7631-86-9	231-545-4

3. Hazard Identification

According regulation (EC) No 1272/2008
H315 – Skin irritation category 2
H318 – Eye damage category 1

According Council Directive 67/548/EEC R37; R38; R41

Warning symbols EC 1272/2008:

Hazard pictogram:

Hazard Statements:
H315– Skin irritation category 2
H318 – Eye damage category 1

Precautionary Statements:
P264 – Wash thoroughly after handling
P280 – Wear protective gloves, protective clothing / eye protection / face protection

Response:
P335 – May cause respiratory irritation
P332/P313 – If skin irritation occurs seek medical advice
P305/P351/P338 - If in eyes; rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do, continuing rinsing.

4. First Aid Measures

Inhalation: Move to fresh air. Immediate medical attention is not required.

Ingestion:	Immediate medical attention is required. Drink plenty of water. Do not induce vomiting. Call a physician immediately.
Eye Contact:	Rinse immediately and copiously with clean, fresh water for at least 15 minutes, keeping eyelids opened. If eye irritation persists, consult a specialist.
Skin Contact:	Remove contaminated clothing and wash them before using them again. Wash with plenty of water and soap.

Most important symptoms and effects, potential acute health effects
Ingestion: burns, vomiting, gastrointestinal disturbance.
Inhalation: severe irritation to respiratory tract as coughing, choking or shortness of breath, headache and dizziness.
Inflammation of the eye: redness, watering and itching.
Skin inflammation: itching, scaling, reddening, blistering

Potential chronic health effects:
Chronic eye irritation, severe skin irritation and respiratory tract irritation leading to frequent attacks of bronchial infection.

5. Fire Fighting Measures

Fire extinguishing media:	CO2, foam, water.
Special hazards from the mixture	Thermal decomposition can lead to the release of irritating gasses and vapours.
Advice for firefighters:	Wear the self-contained breathing apparatus and full protection equipment in case of fire, all the time.

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6. Accidental Release Measures

Personal Precautions:	Wear protective gloves, protective clothing, eye and face protection
Cleaning/removal procedure:	Pick up and transfer to properly labelled containers. Neutralise with soda or sodium carbonate. Soak up with inert absorbent material and dispose as hazardous waste. Keep in suitable, closed containers for disposal. After cleaning, flush away traces with plenty of water.

7. Handling & Storage

Handling:	Normal measures for preventive fire protection. Aerosol and dust generation preventions; do not breathe spray mist. No special environmental precautions required. Avoid contact with skin. When using do not eat, drink or smoke.
Storage:	Keep container tightly closed in a cool, well ventilated, dark dry place in proper labelled containers. Avoid temperatures >100C. Storage class 12 (VCI storage system)

8. Exposure Controls/Personal Protection

Exposure Controls:	Prevent dust build up by providing adequate ventilation to keep airborne concentrations low.
Hand protection:	Rubber gloves – breakthrough time 8 hours (EN374)
Eye protection	safety glasses (goggles) with side-shields or full face shield
Skin and body protection	Long sleeve clothing and chemical resistant boots.
Respiratory protection	maintain adequate ventilation. Certified respirators, with a particle filter P2 recommended.

Environmental exposure controls: None.

9. Physical & Chemical Properties

Physical and chemical properties	Value
Appearance	Powder
Odour	characteristic
pH	3-3.5 (1:20 dilution in water)
Decomposition temperature:	>180C
Flash point	not applicable
Vapour pressure	not applicable
Vapour density	not applicable
Solubility	in water completely soluble
Explosive properties	not applicable

10. Stability & Reactivity

Reactivity	not available
Chemical stability	Stable at normal recommended conditions
Conditions to avoid	Temperatures over 150C
Hazardous residues	Irritating gasses and vapours after thermal decomposition
Material to avoid	oxidising agents, alkali material
Hazardous polymers	none

11. Toxicological Information

Acute toxicity:	Oral LD50 (rat) = 4200 mg/Kg. (IUCLID OECD guideline 401) Dermal LD50 (rabbit) > 2500 mg/Kg (IUCLID OECD guideline 402)
Mutagenic effects	None known
Reproductive effects	No data available

STOT single exposure: No data available.

12. Ecological Information

Toxicity to fish	LC50	96 hrs	350	Mg/l	
Toxicity to daphnia	EC50	48 hrs	270	Mg/l	Daphnia magna

Persistence and degradability: Taking into consideration the properties of the components, the product is estimated as readily biodegradable according to the OECD classification.

Bioaccumulative potential: None

Other adverse effects: None known

13. Disposal Consideration

Can be disposed as waste water, landfilled or incinerated, when in compliance with local regulations. Clean container with water. Empty containers should be taken for local recycling, recovery or waste disposal.

14. Transport Information

The product is not classified in ADR/RID/GGSVE or IMDG-code/GGVsee or ICAO – TI/IATA-DGR

15. Regulatory Information

EU regulation Classified in accordance of Annex IV of 67/548/EC

USA/FDA GRAS

German Hazard water class (WGK) 1

Harris Filters has compiled the information contained in this data sheet to the best of its own knowledge and of available reliable data.

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