

SAFETY DATA SHEET

LACTIC ACID

Infosafe No.: 1HH05
ISSUED Date: 20/06/2017
Issued by: CULBEAG HOLDINGS Pty Ltd

1. IDENTIFICATION

GHS Product Identifier

LACTIC ACID

Company Name

CULBEAG HOLDINGS Pty Ltd (ABN 95 007 197 079)

Address

19 Allied Drive Tullamarine
VICTORIA 3043 Australia

Telephone/Fax Number

Tel: 03 9335 4400
Fax: 03 9335 1750

Emergency phone number

03 9335 4400

Emergency Contact Name

Mr Ian Cameron

E-mail Address

sales@culbeag.com.au

Recommended use of the chemical and restrictions on use

In dyeing baths, as a mordant for printing woollen goods, solvent for water insoluble dyes; reducing chromates in mordanting wool; manufacture of cheese and confectionery; acidulant in beverages; for acidulating worts in brewing, removing Clostridium butyricum in manufacture of yeasts; dehairing, plumping and decalcifying hides, solvent for cellulose formate; flux for soft solder.

2. HAZARD IDENTIFICATION

GHS classification of the substance/mixture

Classified as Hazardous according to the Globally Harmonised System of Classification and labelling of Chemicals (GHS) including Work, Health and Safety regulations, Australia

Classified as Dangerous Goods according to the Australian Code for the Transport of Dangerous Goods by Road and Rail. (7th edition)

Eye Damage/Irritation: Category 1

Skin Corrosion/Irritation: Category 2

Signal Word (s)

DANGER

Hazard Statement (s)

H315 Causes skin irritation.

H318 Causes serious eye damage.

Pictogram (s)

Skull and crossbones



Precautionary statement – Prevention

P264 Wash contaminated skin thoroughly after handling.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

Precautionary statement – Response

P302+P352 IF ON SKIN: Wash with plenty of soap and water.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P310 Immediately call a POISON CENTER or doctor/physician.

P321 Specific treatment (see on this label).

P332+P313 If skin irritation occurs: Get medical advice/attention.

P362 Take off contaminated clothing and wash before reuse.

Precautionary statement – Storage

P403+P233 Store in a well-ventilated place. Keep container tightly closed.

P405 Store locked up.

Precautionary statement – Disposal

Dispose of container and/or contents in accord with State, Territorial or Commonwealth regulations.

Other Information

In Australia the "POISON CENTER" is the Poisons Information Centre (Telephone 131126).

3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients

Name	CAS	Proportion
Lactic Acid	50-21-5	80-85 %
Water	7732-18-5	0-20 %

4. FIRST-AID MEASURES

Inhalation

Move the affected person to a safe area. Loosen tight clothing. If breathing difficult a trained person can administer oxygen. If patient not breathing commence artificial respiration. Obtain medical help or transport to an emergency hospital immediately.

Ingestion

Do NOT induce vomiting. Never give fluids or induce vomiting if the patient is unconscious or is convulsing. Give a glass of water to rinse mouth. Give another glass of water to drink. Obtain medical attention promptly

Skin

If skin or hair contact occurs, remove contaminated clothing immediately and flush skin with running water. Immediate, continued and thorough washing in flowing water until advised to stop by the Poisons Information Centre or a doctor. Obtain medical attention.

Eye contact

If in eyes, hold eyelid(s) open and flush the eye continuously with running water. Continue flushing until advised to stop by the Poisons Information Centre or a doctor, or for at least 15 minutes. Obtain medical attention immediately.

First Aid Facilities

Safety shower with an eye wash unit adjacent to the work area where the product is being handled and used. Drinking quality water readily available.

Advice to Doctor

Product is corrosive. Treat patient symptomatically. Show this MSDS or product label to the attending doctor.

Other Information

For advice, contact the Poisons Information Centre (Phone 13 1126) or a doctor at once.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media

For a small fire use a dry chemical powder. For large fire use water spray, fog or foam. Do NOT use a water jet.

Hazards from Combustion Products

Products are carbon monoxide, carbon dioxide and water vapour.

Special Protective Equipment for fire fighters

Fire fighters should wear basic fire-fighting clothing and equipment. Self contained breathing apparatus may be required depending on the complexity of the fire situation.

Specific Hazards Arising From The Chemical

Combustible liquid in the presence of naked flames and sparks and heat.

Hazchem Code

2X

6. ACCIDENTAL RELEASE MEASURES

Spills & Disposal

If a small spill dilute with water and collect for disposal or absorb in sand soil or an inert absorbent material. Controlled neutralisation with dilute solution of sodium carbonate will reduce the risks of handling and disposal.

For a large spill, stop the leak if safe to do so. Wear protective clothing and equipment. Contain the spill with dry sand, soil or an inert, non-combustible, absorbent material. Collect the absorbed material for appropriate disposal. Carefully neutralise residual spilled material. Wash area of spill after neutralisation.

7. HANDLING AND STORAGE

Precautions for Safe Handling

Product is a DANGEROUS GOOD - CORROSIVE! Avoid skin and eye contact. Keep the container in a secure storage area. Keep the container dry and away from heat sources. Keep away from ignition sources. An empty container poses a fire risk. Evaporate the residual liquid in a fume hood. Triple wash with water the empty container. Never add water to concentrated product. Keep away from oxidising agents.

Conditions for safe storage, including any incompatibilities

Product is classified as a DANGEROUS GOOD for storage - Class 8 - CORROSIVE. Store away from oxidising agents and strong alkalis.

Corrosiveness

Slightly corrosive in presence of aluminium, copper, stainless steel. Non corrosive to glass.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational exposure limit values

A National Exposure Standard(NES)* has not been established by SWA*for lactic acid.

Appropriate Engineering Controls

Provide exhaust ventilation to keep the airborne concentration of vapours as low as practicable. Ensure that a safety shower and an eye washing unit is readily accessible.

Respiratory Protection

If ventilation inadequate to control the slightly acrid vapours wear an approved air-purifying respirator. Guidelines for selection and fitting of an approved air-purifying respirator or a supplied air breathing equipment are available from Australian Standards - AS/NZS 1716* and AS/NZS 1715*.

Eye Protection

It is imperative to prevent eye contact. Use approved chemical goggles and a face shield selected and used according to the recommended practices in the workplace provided in AS/NZS 1336* and AS/NZS 1337*. An eye wash unit must be readily accessible in the area where product is being used.

Body Protection

Wear body and limb covering clothing. Use synthetic rubber gloves. Wear PVC or rubber apron when handling and using the product. Wash contaminated clothing before re-use. Refer to the Australian Standard - AS/NZS 4501* - Occupational Protective Clothing..

Hygiene Measures

Ensure a high level of personal hygiene is maintained when using this product. Always wash hands before eating, drinking, smoking or using the toilet and at the conclusion of work periods and work shift.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

Clear colourless to pale yellow viscous liquid. Readily absorbs moisture (hygroscopic).

Melting Point

17°C

Boiling Point

121°C

Solubility in Water

Soluble

Specific Gravity

1.21

pH

2 - 2.5

Vapour Pressure

30 mm Hg

Flash Point

Not applicable

Flammable Limits - Lower

Not applicable

Flammable Limits - Upper

Not applicable.

10. STABILITY AND REACTIVITY

Reactivity

Product is stable.

Conditions to Avoid

Excess heat, incompatible materials.

Incompatible materials

Reactive with oxidizing agents, reducing agents, acids.

Possibility of hazardous reactions

Incompatible with iodides, hydrofluoric acid and nitric acid, oxidising agents.

Mixtures of lactic acid, hydrofluoric acid and nitric acid are unstable and should not be stored. Lactic acid and nitric acid react autocatalytically after a dormant period, attaining a temperature of 90°C with vigorous gas evolution after about 12 hours.

Hazardous Polymerization

Will not occur.

11. TOXICOLOGICAL INFORMATION

Toxicology Information

For Lactic acid:-

Acute oral toxicity (rat) LD50: >3543 mg/kg

Acute dermal toxicity (rabbit) LD50: >2000 mg/kg

Severely irritating to eye of rabbit
Severely irritating to skin of a rabbit.

Ingestion

May cause irritation of the digestive system with resulting nausea, vomiting, diarrhea and possible burns to mouth, throat and stomach. May cause tissue damage.

Inhalation

Avoid inhalation of vapour or mists. May cause irritation of respiratory tract. May cause coughing.

Skin

CORROSIVE! Causes burns to tissue. Causes severe skin irritation. Possible burns from prolonged or frequently repeated overexposure. May be absorbed by the skin.

Eye

CORROSIVE! Causes severe irritation and burns. May cause conjunctivitis and corneal damage.

Mutagenicity

Mutagenic to bacteria and yeast. Effect on humans not determined.

Health Hazard

Absorbed through skin. Eye contact, inhalation, ingestion.

Chronic Effects

Prolonged or repeated skin contact/absorption may affect the brain, urinary system and blood.

12. ECOLOGICAL INFORMATION

Environmental Protection

As product is acidic keep out of watercourses, water storage, drains and sewers. Spill may result in localised harm to aquatic organisms. If spill occurs notify relevant responsible departments promptly.

13. DISPOSAL CONSIDERATIONS

Waste Disposal

Disposal of contents and/or container shall be in accord with State, Territorial or Commonwealth regulations. Dispose of waste materials in an approved water treatment plant or an approved landfill for collected waste solids from spills and clean up.

Container Disposal

Triple rinse the empty container with water before recycling or re-use.

14. TRANSPORT INFORMATION

U.N. Number

3265

UN proper shipping name

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

Transport hazard class(es)

8

Packing Group

II

Hazchem Code

2X

IERG Number

37

15. REGULATORY INFORMATION

Regulatory information

Product is classified, see Section 2, as a HAZARDOUS CHEMICAL - EYE DAMAGE/IRRITATION and SKIN CORROSION/IRRITATION according to the Globally Harmonised System for Classification and Labelling of Hazardous Chemicals*.

For labelling of hazardous chemicals refer to relevant SWA Code of Practice*, and the subsection below.

Classified as a DANGEROUS GOOD - CORROSIVE.

Poisons Schedule

Not Scheduled

Packaging & Labelling

Marking (labelling) as a Dangerous Good in accordance with the ADG Code* with a Class 8 - CORROSION pictogram plus UN Number and Proper Shipping Name.

Labelling of a Hazardous Chemical to be in accord with National Code of Practice for labelling* and Hazardous Chemical Regulations that require the following classification statements;

Causes skin irritation, and

Causes serious eye damage.

Supported by Prevention Statements, Response Statements, Storage and Disposal Statements.

Plus a HAZARD Pictogram for Corrosion. The ADG pictogram is an equivalent.

Refer to Section 2 of this document for the specific statements required and the pictogram.

Australia (AICS)

Lactic acid is included in the Australian Inventory of Chemical Substances*.

16. OTHER INFORMATION

Date of preparation or last revision of SDS

Issued as SDS for a HAZARDOUS CHEMICAL 8/6/2017. SDS prepared in accord with the National Code of Practice for Preparation of a Safety Data Sheet*

Significant changes are Section 2: insertion of Classifications, Hazard Statements, Preventive Statements, Response Statements and Storage, Disposal Statements and Other Information. Section 15: revised information in Regulatory Information and Packaging and Labelling subsections to reflect new health hazard classification outcome. Section 16: new date of issue and document title and revised Literature References.

References

- * GHS = Globally Harmonised System for the Classification and Labelling Hazardous Chemicals. United Nations publication
- * Australian Dangerous Goods Code, 7th Edition, 2007 as amended.
- * NES = Exposure Standards for Atmospheric Contaminants in the Occupational Environment in exposure standards section of HSIS, as amended.
- * SWA = Safe Work Australia formerly National Occupational Health and Safety Commission.
- ^ AS = Australian Standard
- * NZS = New Zealand Standard
- * AS/NZS 1716: Respiratory protective devices.
- * AS/NZS 1715: Selection, use and maintenance of respiratory protective devices.
- * AS/NZS 1337: Eye protectors for the industrial applications.
- * AS/NZS 1336: Recommended practices for eye protection in the industrial environment.
- * AS/NZS 4501; - Occupational Protective Clothing.
- * National Model Code of Practice for Labelling of Workplace Hazardous Chemicals, Safe Work Australia
- * National Poisons Standard - Commlaw website
- * SUSMP = Standard for the Uniform Scheduling of Medicines and Poisons, Therapeutics Goods Authority
- * AICS = Australian Inventory of Chemical Substances maintained by National Industrial Chemicals Notification and Assessment Scheme.
- * National Model Code of Practice for the Preparation of Safety Data Sheets for Hazardous Chemicals, Safe Work Australia.

Contact Person/Point

BUSINESS HOURS: Product Information Officer, (03) 9335 4400

This SDS summarises our best knowledge of the health and safety hazard information of this product and how to safely handle and use the product in the workplace. Each user must review this SDS in the context of how the product will be handled and used in the workplace. If clarification or further information is needed to ensure that an appropriate risk assessment can be made, the user should contact this company.

Our responsibility for products sold is subject to our standard terms and conditions, a copy of which is available on our website at www.culbeag.com.au

END OF SDS

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