

Rep. No.SET2021-16761

Material Safety Data Sheet (MSDS) Report

Client unit: Universal Biosensors Pty Ltd

Name of sample: Malic Buffer Bottle kit

Address: 1 Corporate Avenue, Rowville, Victoria, Australia 3178



Tested by: <i>Sven</i>	Checked By: <i>Kuangweidong</i>	Approved By: <i>Xu Peng</i>
Date: Dec. 17, 2021	Date: Dec. 17, 2021	Date: Dec. 17, 2021



1 Identification of substance

Product details

Product name: Malic Buffer Bottle kit

Nominal Capacity: 25ml

End Uses: Test Malic Acid

Manufacturer: Universal Biosensors

Address: 1 Corporate avenue, Rowville, VIC 3178

Tel: 61 3 9213 9000

Contract Manufacturer: E-BI International Technologies (Shenzhen) Co., Ltd.

Address: Floor 13, Tower C, Chuangwei Building, 008 Gaoxin South First Road, High-Tech Park,
Nanshan, Shenzhen, China 518057

Tel: 18923898091 **Fax:** /

Mobile: /

Mail: /

MSDS Code: SET2021-16761

2 Hazards identification

This product as a whole, in general is safe under reasonably foreseeable use.

Primary routes of entry:

Eye: Direct contact may cause eye irritation.

Skin: Direct contact may cause skin irritation.

Inhalation: No hazards under normal application conditions.

Ingestion: If swallowed by mistake, it will irritate the digestive tract.

Health hazard: No hazards under normal application conditions. Prolonged skin contact may cause irritation.

Environmental harm: Have a harmful effect on the environment, Can cause pollution to water body.

Combustion hazard: The product is non-flammable.



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3 Composition/Data on components**Chemical characterization:****Description : (CAS#)**

Chemical Name	CAS No.	In % By Weight
NaOH	1310-73-2	2.7174%
TAPS	29915-38-6	22.0362%
ProClin®950	2682-20-4	0.0109%
H ₂ O	7732-18-5	75.2355%

Abbreviation:

CAS: Chemical Abstract Service

4 First aid measures**Skin contact**

Remove contaminated clothes and rinse the skin with soap and lot of water.

Eye contact

Lift the eyelid, use flowing water or normal saline to irrigate. Get medical aid immediately.

Inhalation

If inhalation cause respiratory discomfort, move to fresh air immediately rest. If uncomfortable situation failed to ease, get medical aid immediately.

Ingestion

If swallowed by mistake, gargle with water. Medical attention immediately.

5 Fire fighting measures**Combustion hazard:** This product is not flammable.**Extinguishing Media:** put out a fire in the surrounding environment with the right agent. Such as CO₂, dry powder.**Fire precautions and measures:** Firefighters must wear gas masks, wear firefighting suits.**Combustion products:** CO, CO₂ etc.



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6 Accidental release measures**Disposal methods:**

1. Rapid evacuation leakage pollution area personnel to safe areas, and isolation, strictly limited access;
2. Provide adequate protection and ventilation equipment;
3. Collect the leakage in a suitable labeled container as much as possible;
4. In a safe condition, choose appropriate ways to prevent or reduce leakage, for example use sand or clay ring-fence leakage, possible cut off leakage source, avoid into sewer or other enclosed spaces;
5. Cut off the source of leakage as much as possible, avoid entering sewers or other confined space;
6. If a large number of leakage, collect and recycle leakage to suitable and indicative covered container, and shipped to a special waste disposal site disposal.

Waste treatment methods: All waste must be referring to the United Nations, national and local regulations for disposal.

7 Handling and storage

Handling: Ventilation, operators must receive special training, strictly abide by the operational procedures. Far away from fire and heat source. The workplace smoking is strictly prohibited. Use explosion-proof ventilation systems and equipment. To prevent leakage in the air of workplace. Light lightly discharge when handling to prevent damage of the container. Equipped with corresponding varieties and number of fire equipment.

Storage: Stored in a low temperature, dry, well ventilated environment. Avoid direct sunlight. Store away from food and water, wash your hands thoroughly before eat bread or drink water. Far from taboo object, such as strong oxidizer, strong acid. Keep away from fire and heating sources. Equipped with corresponding varieties and number of fire equipment. Storage areas should be equipped with leakage emergency treatment equipment and suitable for accept materials.

8 Exposure controls and personal protection

Monitoring method: No data available.

Engineering controls: Ensure vapor concentration in the workshop under the requirements of existing OSHA.

Respiratory system safeguard: Exceed the standard concentration in air, must wear self-priming filter type gas mask (half mask), emergency rescue or evacuation, should wear air respirator.

Eye safeguard: Wear chemical safety protective glasses.

Body safeguard: Wear working clothes.

Hand safeguard: Wear glove.

Else safeguard: No smoking, dining and drinking water in the workplace. Keep good habit of hygiene. Avoid prolonged and repeated contact. After work, shower and change clothes.

**9 Physical and chemical properties:****General Information**

- a) **appearance and properties:** Transparent liquid
- b) **Odour:** Odourless
- c) **melting point:** No data available
- d) **boiling point:** No data available
- e) **flashing point:** No data available
- f) **Density:** No data available
- g) **Nominal Capacity:** 25ml
- h) **Upper flammable (explosive) limits in air – Upper (vol %) – UEL:** No data available
- i) **Lower flammable (explosive) limits in air – Lower (vol %) – LEL:** No data available
- j) **Oxidising properties:** No data available
- k) **Solubility in water:** Soluble in water

10 Stability and reactivity**10.1 stability**

Stable under ordinary conditions of use and storage.

10.2 avoid contact conditions

No data available.

10.3 prohibited content

No data available.

10.4 aggregate harm

No data available.

10.5 decomposition product

No data available.

11 Toxicological information**toxicology influencing information****Acute toxicity**

No data available

Irritation

No data available

Chronic toxicity

No data available

Carcinogenicity

No data available

Reproduction toxicity

No data available

**12 Ecological information****12.1 ecotoxicity**

No known significant effects or critical hazards.

12.2 biological degradability

No known significant effects or critical hazards.

12.3 non-living things degradability

No known significant effects or critical hazards.

12.4 biology gathering and biology accumulate

No known significant effects or critical hazards.

12.5 Environmental impact

The environment may be affected and there is a risk of water pollution.

13 Disposal considerations

All waste must be referring to the United Nations, national and local regulations for disposal, the dumped or discarded material may be regard as a restrictive waste referring to local regulations. Cleaned containers containing this substance were also required treatment. Comply with waste law. Atmospheric Pollution Act and water pollution law for disposal.

14 Transport information

Number of dangerous goods: Not applicable

UN Number: No data

Transport Attentions:

check whether the container is full, sealing, to ensure that the container does not leak during the process of transportation, do not fall, do not fall, no damage. It is strictly prohibited and oxidant, such as food chemicals during conventional. During transport, the vehicle should prevent exposure, rain and high temperature. For stopovers, the vehicle should be away from fire and heat sources. Transport vehicle must thorough cleaning and disinfection, or other items shall not be shipment. Shipping, equipped with position should be far away from the bedroom, kitchen, and from the engine room, power supply, fire and other parts. Highway transportation route as prescribed.



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15 Regulations

ISO 11014-2009 Safety data sheet for chemical products - Content and order of sections.

Chemical Dangerous Goods Safety Management Regulations (January 9, 2002 by the State Council), the workplace safe use of chemicals ([1996] Ministry of Labor No. 423) and other regulations made the corresponding provisions on the safe use of hazardous chemicals, production, storage, transport, handling, etc.

Please note that waste disposal should meet local regulatory requirements.

16 Other information:

The above information are correct, but does not contain all of the information and only used as a guide. The information in this document is based on our current knowledge, it apply to this product as for the correct safety tips. The information does not guarantee the properties of this product. Our company is not responsible for any damages caused by the products.

***** END OF REPORT *****

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