Milton® Anti-bacterial Tablets

Conforms to Code of Practice – Preparation of safety data sheets for hazardous chemicals, July 2020.

SECTION 1 – IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND OF THE COMPANY / UNDERTAKING

1.1. Product identifier

Product name: Milton® Anti-bacterial Tablets

1.2. Relevant identified uses of the substance or mixture and uses advised against

Disinfection of nursery accessories (feeding bottles, teats, …) by immersion.
Disinfection of surfaces (floor, working surfaces, …) in domestic and healthcare sectors by wet wiping.
For professional and general public.

1.3. Details of the supplier of the safety data sheet

Registered company name: Milton Australia Pty Ltd
Address: 1/575 Darling Street, Rozelle NSW 2039 Australia
Phone: +61 3 8586 0500
Fax.: +61 3 8586 0505
E-mail: info@nicepack.com.au
http://www.miltonbaby.com.au

1.4. Emergency telephone number

Country	Phone number	Website
Australia	1800 506 750	-
New Zealand	0800 555 895	-

SECTION 2 – HAZARDS IDENTIFICATION

This material is considered hazardous according to the Work Health and Safety Regulations.

2.1. Classification of the substance or mixture

Classification	Eye Irrit. 2; H319, Causes serious eye irritation. STOT SE 3; H335, May cause respiratory irritation.

2.2. Label elements

Hazard pictograms:

Signal word: WARNING

Hazard statements:

H319	Causes serious eye irritation.
H335	May cause respiratory irritation.

Precautionary statements – General:

P101	If medical advice is needed, have product container of label at hand.
P102	Keep out of reach of children.

Precautionary statements – Prevention:

P264	Wash hands thoroughly after handling.
P280	Wear protective gloves/protective clothing/eye protection/face protection.

Precautionary statements – Response:

P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337+P313	If eye irritation persists: Get medical advice/attention.

Precautionary statements – Storage:

P405	Store locked up.

Precautionary statements – Disposal:

P501	Dispose of contents/container in accordance with local regulation.

Hazardous substances: Troclosene sodium.

Additional labelling: Not Applicable.

2.3. Other hazards

Additional warnings: This mixture/product does not contain any substances considered to meet the criteria classifying them as PBT and/or vPvB.

SECTION 3 – COMPOSITION / INFORMATION ON INGREDIENTS

3.1. Substances

Not applicable. This product is a mixture.

3.2. Mixtures

Product/substance	Identifiers	% w/w	Classification	Note
Troclosene sodium	CAS No.: 2893-78-9 EC No.: 220-767-7	40-60%	Ox. Sol. 2, H272 Acute Tox. 4, H302 Eye Irrit. 2, H319 STOT SE 3, H335 (SCL: 10.00 %)	
Adipic acid	CAS No.: 124-04-9 EC No.: 204-673-3	15-25%	Eye Irrit. 2, H319	
Sodium carbonate	CAS No.: 497-19-8 EC No.: 207-838-8	3-5%	Eye Irrit. 2, H319	

See full text of H-phrases in section 16. Occupational exposure limits are listed in section 8, if these are available.

Other information

None known.

SECTION 4 – FIRST AID MEASURES

4.1. Description of first aid measures

General information	In case of accident: Contact a doctor of casualty department – bring the label or this safety data sheet. Contact a doctor if in doubt about the injured person's condition or if the symptoms persist. Never give an unconscious person water or other drink.
Inhalation	Upon breathing difficulties or irritation of the respiratory tract: Bring the person into fresh air and stay with him/her.
Skin Contact	Upon irritation: rinse with water. In the event of continued irritation, seek medical assistance.
Eye contact	Upon irritation of the eye: Remove contact lenses. Flush eyes immediately with plenty of water or isotonic water (20-30 °C) for at least 5 minutes and continue until irritation stops. Make sure to flush under upper and lower eyelids. If irritation continues, contact a doctor. Continue flushing during transport.
Ingestion	If the person is conscious, rinse the mouth with water and stay with the person. Never give the person anything to drink. In case of malaise, seek medical advice immediately and bring the safety data sheet or label from the product. Do not induce vomiting, unless recommended by the doctor. Have the person lean forward with head down to avoid inhalation of or choking on vomited material.
Burns	Not Applicable.

4.2. Most important symptoms and effects, both acute and delayed

Irritation effects: This product contains substances, which may cause irritation upon exposure to skin, eyes or lungs. Exposure may result in an increased absorption potential of other hazardous substances at the area of exposure.

4.3. Indication of any immediate medical attention and special treatment needed

If eye irritation persists: Get medical advice/attention.

Information to medics: Bring this safety data sheet or the label from this product.

SECTION 5 – FIREFIGHTING MEASURES

5.1. Extinguishing media

Suitable methods of extinction	Alcohol-resistant foam, carbon dioxide, powder, water mist.

Unsuitable extinguishing media	Waterjets should not be used, since they can spread the fire.

5.2. Special hazards arising from the substance or mixture
Fire will result in dense smoke. Exposure to combustion products may harm your health. Closed containers, which are exposed to fire, should be cooled with water. Do not allow fire- extinguishing water to enter the sewage system and nearby surface waters.
If the product is exposed to high temperatures, e.g. in the event of fire, dangerous decomposition compounds are produced. These are:
Carbon oxides (CO / CO2)
Some metal oxides

5.3. Advice for firefighters
Wear self-contained breathing apparatus and protective clothing to prevent contact. Upon direct exposure call the NSW Poisons Information Centre on 13 11 26 (Available 24/7) in order to obtain further advice.

Hazchem Code: 2Z

SECTION 6 – ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures
No specific requirements.

6.2. Environmental precautions
Avoid discharge to lakes, streams, sewers, etc.

6.3. Methods and material for containment and cleaning up
Minor spills are collected with a cloth. Collection and disposal of the material shall be done with minimum creation of dust. Sweep and collect. Shall be contained in suitable and tightly closed disposal containers.
Wherever possible cleaning should be performed with normal cleaning agents. Avoid use of solvents.

6.4. Reference to other sections
See section 13 “Disposal considerations” on handling of waste.
See section 8 “Exposure controls/personal protection” for protective measures.

SECTION 7 – HANDLING AND STORAGE

7.1. Precautions for safe handling
Smoking, drinking and consumption of food is not allowed in the work area.
See section 8 "Exposure controls/personal protection" for information on personal protection.

7.2. Conditions for safe storage, including any incompatibilities

Recommended storage material	Keep only in original packaging.
Storage temperature	Ambient temperature and humidity, in original packaging securely closed.
Incompatible materials	Will not polymerise. The following materials may react with the product: Acids. Alkalis. Organic nitro compounds. Amines. Oxidising agents. Reducing agents. Moisture. Peroxides. Contact with acids liberates toxic gas. Under normal conditions of storage and use, no hazardous reactions will occur.

7.3. Specific end use(s)
This product should only be used for applications quoted in section 1.2.

SECTION 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1. Control parameters
No substances are included in the list of workplace exposure standards for airborne contaminants as published by the Safe Work Australia.

DNEL

Adipic acid

Duration:	Route of exposure:	DNEL:
Long term – Systemic effects – General population	Dermal	7.5 mg/kg bw/day
Long term – Systemic effects – Workers	Dermal	21 mg/kg bw/day
Long term – Systemic effects – General population	Inhalation	13 mg/m³
Long term – Systemic effects – Workers	Inhalation	74.1 mg/m³
Long term – Systemic effects - General population	Oral	7.5 mg/kg bw/day

Sodium carbonate

Duration:	Route of exposure:	DNEL:
Long term – Local effects – General population	Inhalation	5 mg/m³
Long term – Local effects – Workers	Inhalation	10 mg/m³

Troclosene sodium

Duration:	Route of exposure:	DNEL:
Long term – Systemic effects – General population	Dermal	1.15 mg/kg bw/day
Long term – Systemic effects – Workers	Dermal	2.3 mg/kg bw/day
Long term – Systemic effects – General population	Inhalation	1.99 mg/m³
Long term – Systemic effects – Workers	Inhalation	8.11 mg/m³
Long term – Systemic effects – General population	Oral	1.15 mg/kg bw/day

PNEC

Adipic acid

Duration:	Route of exposure:	PNEC:
Freshwater	Continuous	126 µg/L
Freshwater sediment	Continuous	474 µg/kg
Intermittent release (freshwater)	Continuous	460 µg/L
Marine water	Continuous	12.6 µg/L
Marine water sediment	Continuous	47.4 µg/kg
Soil	Continuous	20.8 µg/kg

Troclosene sodium

Duration:	Route of exposure:	PNEC:
Freshwater	Continuous	170 ng/L
Freshwater sediment	Continuous	7.56 mg/kg
Intermittent release (freshwater)	Continuous	1.7 µg/L
Marine water	Continuous	1.52 mg/L
Sewage treatment plant	Continuous	590 µg/L
Soil	Continuous	756 µg/kg

8.2. Exposure controls

Control is unnecessary if the product is used as intended.

General recommendations	Smoking, drinking and consumption of food is not allowed in the work area.
Exposure scenarios	There are no exposure scenarios implemented for this product.
Exposure limits	Occupational exposure limits have not been defined for the substances in this product.
Appropriate technical measures	Apply standard precautions during use of the product. Avoid inhalation of gas or dust.
Hygiene measures	In between use of the product and at the end of the working day all exposed areas of the body must be washed thoroughly. Always wash hands, forearms and face.
Measures to avoid environmental exposure	No specific requirements.

8.3. Individual protection measures, such as personal protective equipment

Generally	Use only protective equipment that carries the RCM symbol.

Respiratory Equipment

Type	Class	Colour	Standards	
No specific requirements				

Skin protection

Recommended	Type/Category	Standards	
Standard fabric garments (e.g. cotton overcoat or apron). However, ina professional setting, an in-use risk assessment should determine what is suitable.	As determined in an in-use risk assessment for professional use.	As determined in an in-use risk assessment for professional use.	

Hand protection

Material	Glove thickness (mm)	Breakthrough time(min.)	Standards	
Chemical-resistant, impervious gloves complying with an approved standard should be worn if a risk assessment indicates skin contact is possible.	As specified for glovetype specified through individual use risk assessment	As specified for glovetype specified through individual use risk assessment	As specified for glovetype specified through individual use risk assessment	

Eye protection

Type	Standards	
Chemical splash goggles or face shield, if an in-use risk assessment specifies it is necessary.	As determined by specific, an in-use risk assessment. Under normal domestic and professional use, standard safety spectacles are adequate	

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Form	Tablets
Colour	White
Odour	Chlorine
Odour threshold (ppm)	Testing not relevant or not possible due to the nature of the product.
pH	4 – 6 @ 1% (%)
Density (g/cmS)	1.4
Relative density	Not applicable
Kinematic viscosity	Not applicable

Phase changes

Melting point (°C)	Not applicable
Boiling point (°C)	Not applicable

Vapour pressure	Not applicable
Vapour density	Does not apply to solids.
Decomposition temperature (°C)	Not applicable
Evaporation rate (n-butylacetate = 100)	Not applicable

Data on fire and explosion hazards

Flash point (°C)	Not applicable
Flammability (°C)	Not applicable
Auto-ignition temperature (°C)	Not applicable
Exposition limits (% v/v)	Not applicable
Explosive properties	Not applicable

Solubility

Solubility in water	Completely soluble
n-octanol/water coefficient	Not applicable
Solubility in fat (g/L)	Not applicable

SECTION 10 – STABILITY AND REACTIVITY

10.1. Reactivity
No data available.

10.2. Chemical stability
The product is stable under the conditions, noted in section 7 “Handling and storage”.

10.3. Possibility of hazardous reactions
None known.

10.4. Conditions to avoid
None known.

10.5. Incompatible materials
Will not polymerise. The following materials may react with the product: Acids. Alkalis. Organic nitro compounds. Amines. Oxidising agents. Reducing agents. Moisture. Peroxides. Contact with acids liberates toxic gas. Under normal conditions of storage and use, no hazardous reactions will occur.

10.6. Hazardous decomposition products
The product is not degraded when used as specified in section 1.

SECTION 11 – TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity	Based on available data, the classification criteria are not met.
Skin corrosion/irritation	Based on available data, the classification criteria are not met.
Serious eye damage/irritation	Causes serious eye irritation.
Respiratory sensitisation	Based on available data, the classification criteria are not met.

Skin sensitisation	Based on available data, the classification criteria are not met.
Germ cell mutagenicity	Based on available data, the classification criteria are not met.
Carcinogenicity	Based on available data, the classification criteria are not met.
Reproductive toxicity	Based on available data, the classification criteria are not met.
STOT-single exposure	May cause respiratory irritation.
STOT-repeated exposure	Based on available data, the classification criteria are not met.
Aspiration hazard	Based on available data, the classification criteria are not met.
Long term effects	Irritation effects: This product contains substances, which may cause irritation upon exposure to skin, eyes or lungs. Exposure may result in an increased absorption potential of other hazardous substances at the area of exposure.

SECTION 12 – ECOLOGICAL INFORMATION

12.1. Toxicity

Product/substance	Troclosene sodium
Test method:	
Species:	Fish, Oncorhynchus mykiss
Compartment:	
Duration:	96 hours
Test:	LC50
Result:	0,38 mg/L
Oher information:	

Product/substance	Troclosene sodium
Test method:	
Species:	Daphnia, Daphnia magna
Compartment:	
Duration:	48 hours
Test:	EC50
Result:	< 1 mg NaDCC mg/L
Other information:	

12.2. Persistence and degradability
No data available.

12.3. Bioaccumulative potential
No data available.

12.4. Mobility in soil
No data available.

12.5. Results of PBT and vPvB assessment
This mixture/product does not contain any substances considered to meet the criteria classifying them as PBT and/or vPvB.

12.6. Other adverse effects
None known.

SECTION 13 – DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods
Dispose of contents/container to an approved waste disposal plant.

13.1. Specific labelling
Not applicable.

13.3. Contaminated packing
Packaging containing residues of the product must be disposed of similarly to the product.

SECTION 14 – TRANSPORT INFORMATION

	14.1 UN / ID	14.2 UN proper shipping name	14.3 Hazard class(es)	14.4 Packing group	14.5 Environmental hazards	Other information:
ADR	UN3077	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Troclosene sodium)	Class: 9 Labels: 9 Classification code: M7 	III	No	Limited quantities: 5 kg Tunnel restriction code: (-) See below for additional information.
IMDG	UN3077	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Troclosene sodium)	Class: 9 Labels: 9 Classification code: M7 	III	No	Limited quantities: 5 kg EmS: F-A S-F See below for additional information.
IATA	UN3077	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Troclosene sodium)	Class: 9 Labels: 9 Classification code: M7 	III	No	See below for additional information.

Additional information
These substances when carried in single or combination packaging's containing a net quantity per single or inner packaging of 5 L or less for liquids or having a net mass per single or inner packaging of 5 kg or less for solids, are not subject to any other provisions of ADR/IMDG/IATA provided the packaging's meet the general provisions of 4.1.1.1, 4.1.1.2, 4.1.1.4 - 4.1.1.8 (ADR, IMDG) / 5.0.2.4.1, 5.0.2.6.1.1, 5.0.2.8 (IATA).
-
ADR / See Table A, Section 3.2.1 for any information on special provisions, requirements, or warnings in connection with transport.
See section 5.4.3, for instructions in writing regarding mitigation of damages in relation to incidents or accidents during transport.
IMDG / See section 3.2.1, for any information on special provisions, requirements, or warnings in connection with transport.
IATA / See Table 4.2 for any information on special provisions, requirements, or warnings in connection with transport.
This product is within scope of the regulations of transport of dangerous goods.
Hazchem Code: 2Z

14.6. Special precautions for user
Not applicable.

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code
No data available.

SECTION 15 – REGULATORY INFORMATION

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Restrictions for application	No special.
Demands for specific education	No specific requirements.
Control of major hazard facilities	Not applicable.
Additional information	Not applicable.

The Australian Inventory of Industrial Chemicals (AIIC)	Troclosene sodium Adipic acid Sodium carbonate
Sources	Model Work Health and Safety Regulations as at 1 January 2021.

15.2. Chemical safety assessment.
No

SECTION 16 – OTHER INFORMATION

Full text of H-Phrases as mentioned in section 3

H272, May intensify fire; oxidiser.

H302, Harmful if swallowed.

H319, Causes serious eye irritation.

H335, May cause respiratory irritation.

The full text of identifies uses as mentioned in section 1

None known.

Definitions and abbreviations

ADG	The Australian Code for the Transport of Dangerous Goods by Road & Rail
AICIS	Australian Industrial Chemicals Introduction Scheme
AIIC	Australian Inventory of Industrial Chemicals
AS	Australian Standard
AS/NZS	Australian New Zealand Standard
ATE	Acute Toxicity Estimate
AUH	Hazard statements specific for Australia
BCF	Bioconcentration Factor
CAS	Chemical Abstracts Service
EINECS	European Inventory of Existing Commercial chemical Substances
GHS	Globally Harmonized System of Classification and Labelling of Chemicals
Hazchem	Hazardous chemicals
IARC	International Agency for Research on Cancer
IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods
LogPow	Logarithm of the octanol/water partition coefficient
MARPOL	International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. (“Marpol” = marine pollution)
NICNAS	National Industrial Chemicals Notification and Assessment Scheme (replaced by AICIS since 2020)
OECS	Organisation for Economic Co-operation and Development
PBT	Persistent, Bioaccumulative and Toxic
RCM	Regulatory Mark of Conformity
RID	The Regulations concerning the International Carriage of Dangerous Goods by Rail
SCL	A specific concentration limit
STEL	Short-term exposure limits
STOT-RE	Specific Target Organ Toxicity – Repeated Exposure

STOT-SE	Specific Target Organ Toxicity – Single Exposure
TWA	Time Weighted Average
UN	United Nations
UVBC	Unknown or variable composition, complex reaction products or of biological materials
VOC	Volatile Organic Compound
vPvB	Very Persistent and Very Bioaccumulative
WHS	Work Health and Safety Regulations

Additional information

The classification of the mixture in regard of health hazards is in accordance with the calculation methods given by the Work Health and Safety Regulations.