



SAFETY DATA SHEET

BIGUACIDE

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING:

1.1 PRODUCT IDENTIFIER: BIGUACIDE

1.2. RELEVANT IDENTIFIED USES OF THE SUBSTANCE OR MIXTURE AND USES ADVISED AGAINST

RELEVANT IDENTIFIED USES: Surface disinfectant.

USES ADVISED AGAINST: No additional information available.

1.3 DETAILS OF THE SUPPLIER OF THE SAFETY DATA SHEET

SUPPLIER: Wickham Industries Limited
Unit 2, Sherburn Network Centre
Lancaster Close, Sherburn in Elmet
Leeds, West Yorkshire, LS25 6NS

www.wickhamindustries.co.uk

TELEPHONE: +44(0)1977 682266

FAX: +44(0)1977 682267

E-MAIL: info@wickhamindustries.co.uk

1.4 EMERGENCY TELEPHONE NUMBER

EMERGENCY TELEPHONE: +44(0)1977 682266

2. HAZARDS IDENTIFICATION:

2.1 CLASSIFICATION OF THE SUBSTANCE OR MIXTURE

CLASSIFICATION (1999/45 (CHIP)): R34

CLASSIFICATION (EC 1272/2008 (CLP)):

Physical : Not classified
Health: Skin Corr. 1B
Environmental: Not classified

2.2 LABEL ELEMENTS

LABEL IN ACCORDANCE WITH (EC 1272/2008 (CLP)):



SIGNAL WORD: Danger

HAZARD STATEMENTS: H-314 Causes severe skin burns and eye damage.

PRECAUTIONARY STATEMENTS: P102 Keep out of reach of children.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P303/361/353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
P363 Wash contaminated clothing before reuse.
P305/351/338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P501 Dispose of contents/container as hazardous waste.

SUPPLEMENTARY PRECAUTIONARY STATEMENTS:

P260 Do not breathe dust/fume/gas/mist/vapours/spray.
 P264 Wash skin thoroughly after handling.
 P301/330/331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting.
 P304/340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
 P310 Immediately call a POISON CENTER or doctor/physician.
 P405 Store locked up.

2.3 OTHER HAZARDS

No additional information available.

3. COMPOSITION/INFORMATION ON INGREDIENTS:**3.1 SUBSTANCES**

Not applicable.

3.2 MIXTURES

INGREDIENT NAME:	EINECS	CAS No.	CONTENT
DIDECYLDIMETHYLAMMONIUM CHLORIDE	230-525-2	7173-51-5	5 - 10 %
Classification (EC 1272/2008 (CLP))	Classification (67/548 (CHIP))		
Skin Corr. 1B – H314, Acute Tox. 4 – H302, Aquatic Acute 1 – H400	C: R34, Xn: R22, N: R50		

INGREDIENT NAME:	EINECS	CAS No.	CONTENT
PROPAN-2-OL	200-661-7	67-63-0	1-5 %
Classification (EC 1272/2008 (CLP))	Classification (67/548 (CHIP))		
Flam.Liq. 2 - H225, Eye Irrit. 2 - H319, STOT SE 3 - H336	F:R11, Xi:R36, R67		

INGREDIENT NAME:	EINECS	CAS No.	CONTENT
TETRASODIUM ETHYLENDIAMINE TETRAACETATE	200-573-9	64-02-8	< 2 %
Classification (EC 1272/2008 (CLP))	Classification (67/548 (CHIP))		
Eye Dam. 1 - H318, Acute Tox. 4 - H302, Acute Tox. 4 - H332	Xn:R20/22, Xi:R41		

The full text for all R-phrases and H-statements are shown in section 16

COMPOSITION COMMENTS:

Disinfectant solution

4. FIRST AID MEASURES:**4.1 DESCRIPTION OF FIRST AID MEASURES**

INHALATION: Move the exposed person to fresh air at once. Keep the affected person warm and at rest. Get prompt medical attention.

INGESTION: DO NOT INDUCE VOMITING! Rinse mouth thoroughly. Drink plenty of water. Get medical attention immediately!

SKIN: Remove contaminated clothing. Rinse with water. Contact physician if discomfort continues.

EYES: Immediately rinse with water. Continue to rinse for at least 15 minutes. Obtain medical attention immediately.

4.2 MOST IMPORTANT SYMPTOMS AND EFFECTS, BOTH ACUTE AND DELAYED

INHALATION: May cause irritation to the respiratory system.

INGESTION: Liquid irritates mucous membranes and may cause abdominal pain if swallowed. Causes severe burns

SKIN: Prolonged or repeated exposure may cause severe irritation. Causes severe burns.

EYES: Irritating to eyes. Causes severe burns. may cause permanent eye damage.

Refer to section 4.1

5. FIREFIGHTING MEASURES:

5.1 EXTINGUISHING MEDIA

Carbon dioxide (CO₂). foam. Dry chemicals, sand, dolomite etc. Water spray.

5.2 SPECIAL HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE

May emit toxic fumes if burnt.

5.3 ADVICE FOR FIREFIGHTERS

Wear self-contained breathing apparatus. Keep run-off water out of sewers and water sources.

6. ACCIDENTAL RELEASE MEASURES:

6.1 PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES**6.1.1 FOR NON-EMERGENCY PERSONNEL**

Wear suitable gloves and eye/face protection.

6.1.2 FOR EMERGENCY RESPONDERS

Wear suitable gloves and eye/face protection.

6.2 ENVIRONMENTAL PRECAUTIONS

Do not allow to enter the surface water drain, sewers, or ground

6.3 METHODS AND MATERIAL FOR CONTAINMENT AND CLEANING UP

Wear necessary protective equipment. Absorb in vermiculite, dry sand or earth. Place into containers. Containers with collected spillage must be properly labelled with correct contents.

6.4 REFERENCE TO OTHER SECTIONS

See section 8 for further information on personal protective equipment. See section 13 for disposal.

7. HANDLING AND STORAGE:

7.1 PRECAUTIONS FOR SAFE HANDLING

Avoid spilling, skin and eye contact.

7.2 CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES

Keep in cool, dry, ventilated storage and closed containers. General chemical storage.

7.3 SPECIFIC END USE(S)

Surface disinfectant.

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION:

8.1 CONTROL PARAMETERS

INGREDIENT NAME:	CAS No.:	STD:	LT EXP. 8 HRS:	ST EXP. 15 MIN:
PROPAN-2-OL	67-63-0	WEL	400 ppm	500 ppm

INGREDIENT COMMENTS:

WEL = Workplace Exposure Limit

8.2 EXPOSURE CONTROLS**8.2.1 Appropriate engineering controls**

VENTILATION: Provide sufficient ventilation during operations which cause vapour formation.

8.2.2 Individual protection measures, such as personal protective equipment

PROCESS CONDITIONS: Provide eyewash station.

RESPIRATORS: No specific recommendation made.

PROTECTIVE GLOVES: Chemical resistant gloves required for prolonged or repeated contact.

EYE PROTECTION: Wear approved chemical safety goggles.

HYGIENIC WORK PRACTICES: Wash at the end of each work shift and before eating, smoking and using the toilet. Wash promptly if skin becomes wet or contaminated.

8.2.3 Environmental exposure controls

No additional information available.

9. PHYSICAL AND CHEMICAL PROPERTIES:

9.1 INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE:	Clear liquid.
COLOUR:	Pink / purple
ODOUR/TASTE:	Characteristic
SOLUBILITY DESCRIPTION:	Miscible with water.
BOILING POINT (°C, interval):	102
MELT./FREEZ. POINT (°C, interval):	0
DENSITY/SPECIFIC GRAVITY (g/ml):	1.0
VAPOUR PRESSURE:	2.3 kPa
pH-VALUE, CONC. SOLUTION:	Not determined
FLASH POINT (°C):	N/A
AUTO IGNITION TEMP. (°C):	N/A
FLAMMABILITY LIMIT - LOWER(%):	N/A
FLAMMABILITY LIMIT - UPPER(%):	N/A

9.2 OTHER INFORMATION

No additional information available.

10. STABILITY AND REACTIVITY:

10.1 REACTIVITY

No dangerous reactions known

10.2 CHEMICAL STABILITY

Normally stable.

10.3 POSSIBILITY OF HAZARDOUS REACTIONS

Refer to section 10.1 on reactivity.

10.4 CONDITIONS TO AVOID

Non known

10.5 INCOMPATIBLE MATERIALS

Strong oxidising agents, strong acids

10.6 HAZARDOUS DECOMPOSITION PRODUCTS

Non known

BIGUACIDE

11. TOXICOLOGICAL INFORMATION:

11.1 INFORMATION ON TOXICOLOGICAL EFFECTS

HEALTH HAZARDS, GENERAL: May cause severe chemical burns.

INHALATION: May cause irritation to the respiratory system.

INGESTION: Liquid irritates mucous membranes and may cause abdominal pain if swallowed. Causes severe burns

SKIN: Prolonged or repeated exposure may cause severe irritation. Causes severe burns.

EYES: Irritating to eyes. Causes severe burns. May cause permanent eye damage.

12. ECOLOGICAL INFORMATION:

12.1 TOXICITY

Do not allow to enter soil, waterways or sewer. This product contains materials that are classified as dangerous for the environment.

12.2 PERSISTENCE AND DEGRADABILITY

Biodegradable in water

12.3 BIOACCUMULATIVE POTENTIAL

The product is not expected to bioaccumulate

12.4 MOBILITY IN SOIL

Soluble in water.

12.5 RESULTS OF PBT AND vPvB ASSESSMENT

No additional information available.

12.6 OTHER ADVERSE EFFECTS

No other effects known

13. DISPOSAL CONSIDERATIONS:

13.1 WASTE TREATMENT METHODS

Dispose of in accordance with Local Authority requirements. Use a licensed Waste contractor.

14. TRANSPORT INFORMATION:

14.1 – 14.7

LABEL FOR CONVEYANCE:



ROAD TRANSPORT:

UN No. ROAD:

1760

ADR CLASS No.:

Class 8: Corrosive substances.

ADR PACK GR.

III, Class. Code C9

TUNNEL RESTRICTION CODE:

(E)

PROPER SHIPPING NAME:

Corrosive Liquid N.O.S. (Contains Didecyldimethylammonium Chloride)

SEA TRANSPORT:

UN No. SEA:

1760

IMDG CLASS:

8

IMDG PACK GR.:

III

EmS No.:

F-A, S-B

MARINE POLLUTANT:

No.

BIGUACIDE

AIR TRANSPORT:

UN No., AIR:	1760
ICAO CLASS:	8
AIR SUB CLASS:	None
AIR PACK GR.:	III

15. REGULATORY INFORMATION:

15.1. SAFETY, HEALTH AND ENVIRONMENTAL REGULATIONS / LEGISLATION SPECIFIC FOR THE SUBSTANCE OR MIXTURE

Health and Safety at Work Act 1974. The Control of Substances Hazardous to Health Regulations. Chemicals (Hazard Information & Packaging) Regulations (CHIP). European Regulation (EC) No 1907/2006 Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH). European Regulation (EC) No 1272/2008 on Classification, Labelling and Packaging of Substances and Mixtures (CLP), adopting in the EU the Globally Harmonised System (GHS).

GUIDANCE NOTES: Occupational Exposure Limits EH40.

15.2 CHEMICAL SAFETY ASSESSMENT

Not required.

16. OTHER INFORMATION:

REVISION DATE:	30/08/14
REV. No./REPL. SDS GENERATED:	4
SDS No.:	034

R-PHRASES (Full Text)	R11 Highly flammable. R20/22 Harmful by inhalation and if swallowed. R22 Harmful if swallowed. R34 Causes burns. R36 Irritating to eyes. R41 Risk of serious damage to eyes. R50 Very toxic to aquatic organisms. R67 Vapours may cause drowsiness or dizziness.
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H-STATEMENTS (Full Text)	H225 Highly flammable liquid and vapour. H302 Harmful if swallowed. H314 Causes severe skin burns and eye damage. H318 Causes serious eye damage. H319 Causes serious eye irritation. H332 Harmful if inhaled. H336 May cause drowsiness or dizziness. H400 Very toxic to aquatic life.
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DISCLAIMER:

This 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. Such information is, to the best of the company's knowledge and belief accurate and reliable as of the date indicated. However no warranty, guarantee or representation is made as to its accuracy, reliability or completeness. It is the user's responsibility to satisfy themselves as to the suitability of such information for their own particular use.



SAFETY DATA SHEET

BIGUACIDE – READY TO USE

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING:

1.1 PRODUCT IDENTIFIER: BIGUACIDE – READY TO USE

1.2. RELEVANT IDENTIFIED USES OF THE SUBSTANCE OR MIXTURE AND USES ADVISED AGAINST

RELEVANT IDENTIFIED USES: Surface disinfectant.

USES ADVISED AGAINST: No additional information available.

1.3 DETAILS OF THE SUPPLIER OF THE SAFETY DATA SHEET

SUPPLIER: Wickham Industries Limited
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1.4 EMERGENCY TELEPHONE NUMBER

EMERGENCY TELEPHONE: +44(0)1977 682266

2. HAZARDS IDENTIFICATION:

2.1 CLASSIFICATION OF THE SUBSTANCE OR MIXTURE

CLASSIFICATION (1999/45 (CHIP)): Not classified

CLASSIFICATION (EC 1272/2008 (CLP)):

Physical : Not classified
Health: Not classified
Environmental: Not classified

2.2 LABEL ELEMENTS

LABEL IN ACCORDANCE WITH (EC 1272/2008 (CLP)):

Not classified

SIGNAL WORD: Not classified

HAZARD STATEMENTS: Not classified

PRECAUTIONARY STATEMENTS: Not classified
P102 Keep out of reach of children.

SUPPLEMENTARY PRECAUTIONARY STATEMENTS:

Not classified

2.3 OTHER HAZARDS No additional information available.

3. COMPOSITION/INFORMATION ON INGREDIENTS:**3.1 SUBSTANCES**

Not applicable.

3.2 MIXTURES

INGREDIENT NAME:	EINECS	CAS No.	CONTENT
DIDECYLDIMETHYLAMMONIUM CHLORIDE	230-525-2	7173-51-5	< 1 %
Classification (EC 1272/2008 (CLP))	Classification (67/548 (CHIP))		
Skin Corr. 1B – H314, Acute Tox. 4 – H302, Aquatic Acute 1 – H400	C: R34, Xn: R22, N: R50		

INGREDIENT NAME:	EINECS	CAS No.	CONTENT
PROPAN-2-OL	200-661-7	67-63-0	< 1 %
Classification (EC 1272/2008 (CLP))	Classification (67/548 (CHIP))		
Flam.Liq. 2 - H225, Eye Irrit. 2 - H319, STOT SE 3 - H336	F:R11, Xi:R36, R67		

INGREDIENT NAME:	EINECS	CAS No.	CONTENT
TETRASODIUM ETHYLENDIAMINE TETRAACETATE	200-573-9	64-02-8	< 0.1 %
Classification (EC 1272/2008 (CLP))	Classification (67/548 (CHIP))		
Eye Dam. 1 - H318, Acute Tox. 4 - H302, Acute Tox. 4 - H332	Xn:R20/22, Xi:R41		

The full text for all R-phrases and H-statements are shown in section 16

COMPOSITION COMMENTS:

Disinfectant solution

4. FIRST AID MEASURES:**4.1 DESCRIPTION OF FIRST AID MEASURES**

INHALATION: Move the exposed person to fresh air at once. Keep the affected person warm and at rest. Get prompt medical attention.

INGESTION: DO NOT INDUCE VOMITING! Rinse mouth thoroughly. Drink plenty of water. Get medical attention immediately!

SKIN: Remove contaminated clothing. Rinse with water. Contact physician if discomfort continues.

EYES: Immediately rinse with water. Continue to rinse for at least 15 minutes. Obtain medical attention.

4.2 MOST IMPORTANT SYMPTOMS AND EFFECTS, BOTH ACUTE AND DELAYED

INHALATION: No specific health warnings noted.

INGESTION: May cause discomfort if swallowed.

SKIN: Prolonged or repeated exposure may cause irritation.

EYES: May be irritating to eyes.

Refer to section 4.1

5. FIREFIGHTING MEASURES:**5.1 EXTINGUISHING MEDIA**

Carbon dioxide (CO₂). foam. Dry chemicals, sand, dolomite etc. Water spray.

5.2 SPECIAL HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE

May emit toxic fumes if burnt.

5.3 ADVICE FOR FIREFIGHTERS

Wear self-contained breathing apparatus. Keep run-off water out of sewers and water sources.

6. ACCIDENTAL RELEASE MEASURES:

6.1 PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES

6.1.1 FOR NON-EMERGENCY PERSONNEL

Wear suitable gloves and eye/face protection.

6.1.2 FOR EMERGENCY RESPONDERS

Wear suitable gloves and eye/face protection.

6.2 ENVIRONMENTAL PRECAUTIONS

Do not allow to enter the surface water drain, sewers, or ground

6.3 METHODS AND MATERIAL FOR CONTAINMENT AND CLEANING UP

Wear necessary protective equipment. Absorb in vermiculite, dry sand or earth. Place into containers. Containers with collected spillage must be properly labelled with correct contents.

6.4 REFERENCE TO OTHER SECTIONS

See section 8 for further information on personal protective equipment. See section 13 for disposal.

7. HANDLING AND STORAGE:

7.1 PRECAUTIONS FOR SAFE HANDLING

Avoid spilling, skin and eye contact.

7.2 CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES

Keep in cool, dry, ventilated storage and closed containers. General chemical storage.

7.3 SPECIFIC END USE(S)

Surface disinfectant.

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION:

8.1 CONTROL PARAMETERS

INGREDIENT NAME:	CAS No.:	STD:	LT EXP. 8 HRS:	ST EXP. 15 MIN:
PROPAN-2-OL	67-63-0	WEL	400 ppm	500 ppm

INGREDIENT COMMENTS:
WEL = Workplace Exposure Limit

8.2 EXPOSURE CONTROLS

8.2.1 Appropriate engineering controls

VENTILATION: Provide sufficient ventilation during operations which cause vapour formation.

8.2.2 Individual protection measures, such as personal protective equipment



PROCESS CONDITIONS: Provide eyewash station.

RESPIRATORS: : No specific recommendation made.

PROTECTIVE GLOVES: Chemical resistant gloves required for prolonged or repeated contact.

EYE PROTECTION: Wear approved chemical safety goggles where eye exposure is reasonably probable.

HYGIENIC WORK PRACTICES: Wash at the end of each work shift and before eating, smoking and using the toilet. Wash promptly if skin becomes wet or contaminated.

8.2.3 Environmental exposure controls

No additional information available.

9. PHYSICAL AND CHEMICAL PROPERTIES:

9.1 INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE:	Clear liquid.
COLOUR:	Pink / Purple
ODOUR/TASTE:	Odourless
SOLUBILITY DESCRIPTION:	Miscible with water.
BOILING POINT (°C, interval):	110 PRESSURE:
MELT./FREEZ. POINT (°C, interval):	<0
DENSITY/SPECIFIC GRAVITY (g/ml):	1.0 TEMPERATURE (°C): 20
VAPOUR PRESSURE:	2.3 kPa TEMPERATURE (°C): 20
pH-VALUE, CONC. SOLUTION:	Not determined
FLASH POINT (°C):	N/A METHOD:
AUTO IGNITION TEMP. (°C):	N/A
FLAMMABILITY LIMIT - LOWER(%):	N/A
FLAMMABILITY LIMIT - UPPER(%):	N/A

9.2 OTHER INFORMATION

No additional information available.

10. STABILITY AND REACTIVITY:

10.1 REACTIVITY

No dangerous reactions known

10.2 CHEMICAL STABILITY

Normally stable.

10.3 POSSIBILITY OF HAZARDOUS REACTIONS

Refer to section 10.1 on reactivity.

10.4 CONDITIONS TO AVOID

Non known

10.5 INCOMPATIBLE MATERIALS

Non Known

10.6 HAZARDOUS DECOMPOSITION PRODUCTS

Non known

11. TOXICOLOGICAL INFORMATION:

11.1 INFORMATION ON TOXICOLOGICAL EFFECTS

HEALTH HAZARDS, GENERAL: This product has low toxicity. Only large volumes may have adverse impact on human health.

INHALATION: No specific health warnings noted.

INGESTION: May cause discomfort if swallowed.

SKIN: Prolonged or repeated exposure may cause irritation.

EYES: May be irritating to eyes.

12. ECOLOGICAL INFORMATION:

12.1 TOXICITY

Do not allow to enter soil, waterways or sewer. This product contains materials that are classified as dangerous for the environment.

12.2 PERSISTENCE AND DEGRADABILITY

The product is expected to be readily biodegradable.

12.3 BIOACCUMULATIVE POTENTIAL

The product is not expected to bioaccumulate

12.4 MOBILITY IN SOIL

Soluble in water.

12.5 RESULTS OF PBT AND vPvB ASSESSMENT

No additional information available.

12.6 OTHER ADVERSE EFFECTS

No other effects known

13. DISPOSAL CONSIDERATIONS:

13.1 WASTE TREATMENT METHODS

Dispose of in accordance with Local Authority requirements. Use a licensed Waste contractor.

14. TRANSPORT INFORMATION:

14.1 – 14.7

The product is not covered by international regulation on the transport of dangerous goods (IMDG, IATA, ADR/RID).

15. REGULATORY INFORMATION:

15.1. SAFETY, HEALTH AND ENVIRONMENTAL REGULATIONS / LEGISLATION SPECIFIC FOR THE SUBSTANCE OR MIXTURE

Health and Safety at Work Act 1974. The Control of Substances Hazardous to Health Regulations. Chemicals (Hazard Information & Packaging) Regulations (CHIP). European Regulation (EC) No 1907/2006 Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH). European Regulation (EC) No 1272/2008 on Classification, Labelling and Packaging of Substances and Mixtures (CLP), adopting in the EU the Globally Harmonised System (GHS).

GUIDANCE NOTES: Occupational Exposure Limits EH40.

15.2 CHEMICAL SAFETY ASSESSMENT

Not required.

16. OTHER INFORMATION:

REVISION DATE: 30/08/14
REV. No./REPL. SDS GENERATED: 3
SDS No.: 075

R-PHRASES (Full Text)

- R11 Highly flammable.
- R20/22 Harmful by inhalation and if swallowed.
- R22 Harmful if swallowed.
- R34 Causes burns.
- R36 Irritating to eyes.
- R41 Risk of serious damage to eyes.
- R50 Very toxic to aquatic organisms.
- R67 Vapours may cause drowsiness or dizziness.

H-STATEMENTS (Full Text)

- H225 Highly flammable liquid and vapour.
- H302 Harmful if swallowed.
- H314 Causes severe skin burns and eye damage.
- H318 Causes serious eye damage.
- H319 Causes serious eye irritation.
- H332 Harmful if inhaled.
- H336 May cause drowsiness or dizziness.
- H400 Very toxic to aquatic life.

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