

SAFETY DATA SHEET

1. PRODUCT AND COMPANY IDENTIFICATION

Product Identity:	Ambient Broad spectrum disinfectant based on peracetic acid.
Recommended use:	For fruit and vegetable pre-harvest treatment. For post-harvest use after dilution. For use in process water systems and agricultural water treatment systems. For agricultural use only.
Supplier:	Auryon Industries (Pty) Ltd. 1 Fabriek rd. strydompark, randburg 2169, South africa +27 11 7911312 www.auryon.co.za
Emergency Phone:	+1-800-535-5053 & 1-352-323-3500 (Infotrac® 24/7 hotline) Code 115120

2. HAZARDS IDENTIFICATION

Statements of Hazard

H303 + H313 – May be harmful if swallowed or in contact with skin.

H320 – Causes eye irritation.

Precautionary Statements

P262 – Do not get in eyes, on skin, or on clothing.

P350 – Gently wash with 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.

GHS Label Elements:

WARNING



INDICATIONS FOR MEDICAL ATTENTION / SPECIAL TREATMENT

IF IN EYES: Rinse cautiously with water. Remove contact lenses, if present and easy to do. If eye irritation persists: get medical advice/attention.

IF ON SKIN: Wash with water and soap. If skin irritation or rash occurs and persist, get medical advice or attention. Take off contaminated clothing and wash it before reuse.

IF INGESTED: Do not induce vomiting. If conscious, rinse mouth with a small amount of water and give one glass of water. Never give anything by mouth to an unconscious or drowsy person. Immediately call a POISON CENTER or physician.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Component	CAS №	Concentration
Hydrogen peroxide Ox. Liq. 1; Acute Tox. 4; Skin Corr. 1A; STOT SE 3; Aquatic Chronic 3; H271, H302, H332, H314, H335, H412 Concentration limits: >= 70 %: Ox. Liq. 1, H271; 50 - < 70 %: Ox. Liq. 2, H272; >= 70 %: Skin Corr. 1A, H314; 50 - < 70 %: Skin Corr. 1B, H314; 35 - < 50 %: Skin Irrit. 2, H315; 8 - < 50 %: Eye Dam. 1, H318; 5 - < 8 %: Eye Irrit. 2, H319; >= 35 %: STOT SE 3, H335;	7722-84-1 (EC № 231-765-0)	0.037%
Peroxyacetic (peracetic) Acid Flam. Liq. 3; Org. Perox. D; Acute Tox. 4; Skin Corr. 1A; Eye Dam. 1; Aquatic Acute 1; Aquatic Chronic 1; H226, H242, H302, H332, H312, H314, H318, H400, H410. Concentration limits: >= 1 %: STOT SE 3, H335; M-Factor - Aquatic Acute: 10	79-21-0 (EC № 201-186-8)	0.05%
Inert ingredients	--	99.913%

The exact concentration and/or specific chemical identity are being withheld as a trade secret. Other ingredients include proprietary blend of organic acids

4. FIRST AID MEASURES

IF IN EYES: Rinse cautiously with water. Remove contact lenses, if present and easy to do. If eye irritation persists: get medical advice/attention.

IF ON SKIN: Wash with water and soap. If skin irritation or rash occurs and persist, get medical advice or attention. Take off contaminated clothing and wash it before reuse.

IF INGESTED: Do not induce vomiting. If conscious, rinse mouth with a small amount of water and give one glass of water. Never give anything by mouth to an unconscious or drowsy person. Immediately call a POISON CENTER or physician.

IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTRE or physician if you feel unwell.

Most Important Symptoms: Causes eye irritation and may cause skin irritation. If swallowed, may cause intestinal irritation and discomfort.

Indication of immediate medical attention/special treatment: Immediate medical attention is recommended in the case of eye contact and ingestion.

5. FIRE FIGHTING MEASURES

Suitable (and Unsuitable) Extinguishing Media: Use any media that is suitable for the surrounding fire.

Specific hazards arising from the chemical: Thermal decomposition may produce oxides of carbon.

Special Protective Equipment and Precautions for Fire-Fighters: Firefighters should wear positive pressure self-contained breathing apparatus and full protective clothing for all fires involving chemicals. Cool fire exposed containers with water spray.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment, and Emergency Procedures: Evacuate spill area and keep unprotected personnel away. Prevent contact with the eyes, skin and clothing. Ventilate area. Wear appropriate protective clothing.

Methods and Materials for Containment and Cleaning Up: Wash small spills and residues with water. Place in appropriate containers for disposal. Prevent spill from entering sewers and water courses. Report releases as required by local, state and federal authorities.

7. HANDLING AND STORAGE

Precautions for Safe Handling: Prevent contact with the eyes, skin and clothing. Do not breathe spray, mists, aerosol or dust. Use only with adequate ventilation. Wash with soap and water after handling. Keep containers closed when not in use.

Ensure adequate ventilation, especially in confined areas. Keep away from heat, sparks, flame and other sources of ignition (i.e., pilot lights, electric motors and static electricity). Take precautionary measures against static discharges. Use spark-proof tools and explosion-proof equipment. In case of insufficient ventilation, wear suitable respiratory equipment.

Empty containers retain product residues and contaminants which can be hazardous. Follow all SDS precautions when handling empty containers.

Conditions for Safe Storage, Including Any Incompatibilities: Store in a cool, well-ventilated area away from heat or incompatible materials and their mixtures, such as bases, strong oxidizers and their mixtures.. Store in a corrosion resistant container with a resistant inner liner.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines:

Proprietary blend of organic acids	10 ppm ACGIH TLV- TWA
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Engineering Controls: Use with adequate general or local exhaust ventilation to maintain exposure below occupational exposure limits.

Wear protective gloves, clothing, eye protection and face protection.

Respiratory Protection: In operations where exposure limits are exceeded, an approved respirator with a dust/mist filter or a supplied air respirator should be used. Respirator selection and use should be based on contaminant type, form and concentration. Follow applicable regulations and good Industrial Hygiene practice.

Skin Protection: Impervious coveralls, apron and boots are required as needed to prevent skin contact and contamination of personal clothing..

Hand Protection: Impervious gloves are required.

Eye Protection: Chemical safety goggles and face shield should be worn where splashing is possible.

Other: A safety shower and eye wash should be available in the immediate work area.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Clear liquid
Odour:	Characteristic
pH:	2.4 (1% aqueous solution)
Melting point:	Not detected
Freezing point:	Not detected
Boiling point (initial boiling point and boiling range):	Not detected
Flashpoint:	Not detected
Flammable Limits:	
Lower Explosive Limit (LEL)	Not detected
Upper Explosive Limit (UEL)	Not detected
Vapour pressure:	Not detected
Vapour density:	Not detected
Relative density:	1.17 g/cm ³
Solubility:	Not detected
n-octanol/water partition coefficient:	Not detected
Auto-ignition temperature:	Not detected

Decomposition temperature	Not detected
Odour threshold:	Not detected
Evaporation rate:	Not detected
Flammability:	Not detected
Viscosity:	10.4 mm ² /sec (20°C)

10. STABILITY AND REACTIVITY

Reactivity: Not reactive under normal storage, handling and use conditions.

Chemical Stability: Stable under normal storage, handling and use conditions.

Possibility of Hazardous Reactions: Will react violently with strong bases.

Conditions to Avoid: Not known.

Incompatible Materials: Bases and strong oxidizers and their mixtures.

Hazardous Decomposition Products: Thermal decomposition will generate oxides of carbon.

11. TOXICOLOGICAL INFORMATION

HEALTH HAZARDS:

Eye: Causes eye irritation, tearing, and redness.

Skin: May cause irritation. Prolonged contact may cause allergic skin reaction with itching, redness, and hives.

Ingestion: Swallowing may cause gastrointestinal burns, irritation and upset.

Inhalation: Inhalation of vapors or mists may cause irritation of the nose, throat and upper respiratory tract.

Chronic: Prolonged exposure may cause permanent damage to eye, skin and respiratory tract.

Sensitization: May cause an allergic skin reaction.

Carcinogenicity: None of the components present are listed as a carcinogen or suspected carcinogen by IARC, NTP, ACGIH, or OSHA or are classified as carcinogens under the GHS.

Germ Cell Mutagenicity: Components are not known as germ cell mutagens.

Reproductive Toxicity: Components are not known as reproductive toxins.

Component toxicity (external data)

Peracetic acid

Acute toxicity

LD₅₀ Oral - Rat - male and female - > 7,5 mg/kg (OECD Test Guideline 401)

LC₅₀ Inhalation - Rat - male and female - 4 h - 186 mg/m³ (ECHA)

LD₅₀ Dermal - Rabbit - male and female - > 17,8 mg/kg (US-EPA)

LD₅₀ Intravenous - Mouse - male - 212 mg/kg (ECHA)

Skin corrosion/irritation

Skin - Rabbit Result: Causes severe burns. - 4 h (OECD Test Guideline 404)

Serious eye damage/eye irritation

Eyes - Rabbit Result: Corrosive (US-EPA)

Respiratory or skin sensitization

Maximization Test - Guinea pig Result: negative (Regulation (EC) No. 440/2008, Annex, B.6)

Germ cell mutagenicity

Test Type: reverse mutation assay, Test system: *S. typhimurium*, Result: negative

Test Type: *In vitro* mammalian cell gene mutation test, Test system: Chinese hamster fibroblasts, Result: negative

Test Type: Chromosome aberration test *in vitro*, Test system: Chinese hamster fibroblasts Result: negative

Method: OECD Test Guideline 474 Species: Mouse - male and female - Red blood cells (erythrocytes) Result: negative

Method: OECD Test Guideline 486 Species: Rat - male - Liver cells Result: negative

Carcinogenicity

No data available

Reproductive toxicity

No data available

Specific target organ toxicity - single exposure

No data available

Specific target organ toxicity - repeated exposure

No data available

Aspiration hazard

No data available.

Hydrogen Peroxide

Acute toxicity

Acute toxicity estimate Oral - 500,1 mg/kg (Expert judgment)

Oral: No data available

Inhalation: No data available

LD₅₀ Dermal - Rabbit - male and female - > 2.000 mg/kg (US-EPA)

Skin corrosion/irritation

No data available

Serious eye damage/eye irritation

Causes serious eye damage.

Respiratory or skin sensitization

No data available

Germ cell mutagenicity

Method: OECD Test Guideline 474 Species: Mouse - male and female - Bone marrow Result: negative

Carcinogenicity

No data available

Reproductive toxicity

No data available

Specific target organ toxicity - single exposure

Inhalation - May cause respiratory irritation. - Respiratory

Tract Specific target organ toxicity - repeated exposure

No data available

Aspiration hazard

No data available

12. ECOLOGICAL INFORMATION

Ecotoxicity:

Not known.

Persistence and Degradability:

Readily biodegradable

Bioaccumulative Potential:

Potential for bioconcentration in aquatic organisms is low.

Mobility in Soil:

Very high mobility in soil.

Other Adverse Effects: No data available

Components (external data)

Peracetic acid

Toxicity to fish	semi-static test LC ₅₀ - <i>Oncorhynchus mykiss</i> (rainbow trout) - 0,53 mg/l - 96 h (OECD Test Guideline 203)
Toxicity to daphnia and other aquatic invertebrates	static test EC50 - <i>Daphnia magna</i> (Water flea) - 0,73 mg/l - 48 h (OECD Test Guideline 202)
Toxicity to algae	static test ErC50 - <i>Pseudokirchneriella subcapitata</i> (green algae) - 0,16 mg/l - 72 h (US-EPA) static test NOEC - <i>Pseudokirchneriella subcapitata</i> (green algae) - 0,061 mg/l - 72 h (US-EPA)
Toxicity to bacteria	static test EC50 - activated sludge - 5,1 mg/l - 3 h (OECD Test Guideline 209) static test NOEC - activated sludge - 16,7 mg/l - 3 h (OECD Test Guideline 209)

Hydrogen Peroxide

Toxicity to fish	semi-static test LC ₅₀ - <i>Pimephales promelas</i> (fathead minnow) - 16,4 mg/l - 96 h (US-EPA) semi-static test NOEC - <i>Pimephales promelas</i> (fathead minnow) - 5 mg/l - 96 h (US-EPA)
Toxicity to daphnia and other aquatic invertebrates	semi-static test LC50 - <i>Daphnia pulex</i> (Water flea) - 2,4 mg/l - 48 h (US-EPA) semi-static test NOEC - <i>Daphnia pulex</i> (Water flea) - 1 mg/l - 48 h (US-EPA)
Toxicity to algae	IC50 - <i>Pseudokirchneriella subcapitata</i> (green algae) - 5,7 mg/l - 72 h Growth rate NOEC - <i>Skeletonema costatum</i> (marine diatom) - 0,63 mg/l - 72 h
Toxicity to bacteria	static test EC50 - activated sludge - 466 mg/l - 30 min (OECD Test Guideline 209) static test EC50 - activated sludge - > 1.000 mg/l - 3 h (OECD Test Guideline 209)

13. DISPOSAL CONSIDERATIONS

Dispose in accordance with all local, state and federal regulations.

14. TRANSPORT INFORMATION

DOT Hazardous Materials Description:

Proper Shipping Name: Organic peroxide type F, liquid

UN Number: 3109

Hazard Class/Packing Group: 5.2

Labels Required: 5.2

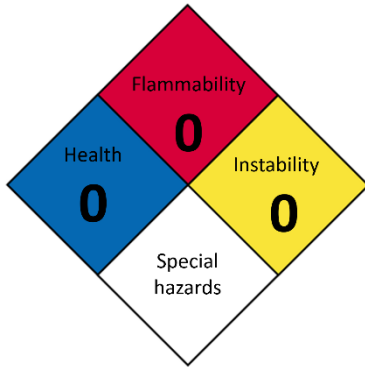
15. REGULATORY INFORMATION

For this product a chemical safety assessment was not carried out.

16. OTHER INFORMATION

NFPA Rating: Health = 0 Flammability = 0 Instability = 0

HMIS Rating: Health = 0 Flammability = 0 Physical Hazard = 0



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