



PARAVET™ SAFETY DATA SHEET

This Safety Datasheet complies with the requirements of Regulation (EC) No 1907/2006

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

1.1 Product Identifier: ParaVet™ 0713

1.2 Relevant identified uses of the substance or mixture and uses advised against: Solution for fixation/conservation of biological samples.

1.3 Details of the supplier of the Safety Data Sheet: Apacor Limited, Unit 5 Sapphire Centre, Fishponds Road, Wokingham, Berkshire, RG41 2QL, United Kingdom
+44 (0) 118 979 5566
technical@apacor.com

1.4 Emergency telephone number:

+44 (0)118 979 5566
(Monday-Friday 0900-1700 excluding UK Public Holidays)

SECTION 2 HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 [CLP]:

Physical hazards – Not classified

Health hazards – Not classified

Environmental hazards – Not classified

Human health – Vapours or mists in high concentration may irritate the respiratory system. May irritate eyes and skin.

Environmental – The product is not classed as environmentally hazardous. Release of the product to water systems may produce a local pH change which can have a damaging effect on aquatic organisms.

Physicochemical – May corrode metal surfaces on prolonged or repeated contact.

2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008 [CLP]

Hazard statement(s)

NC Not Classified

Precautionary statements:

P261 – Avoid breathing vapour/spray

P280 – Wear protective gloves

P280 – Wear eye protection

Contains Acetic Acid

2.3 Other hazards

None.

SECTION 3 COMPOSITION/INFORMATION ON INGREDIENTS

3.2 Mixtures

Hazardous ingredients according to Regulation (EC) No 1272/2008

Component: **Acetic Acid**

CAS No: 64-19-7

EC No: 200-580-7

Index No: 607-002-00-6

Classification: Skin Corr. 1A (H314), Flam. Liq. 3 (H226),

Eye Dam. 1 (H318)

Concentration: Less than 10%

Component: **Thymol**

CAS No: 89-83-8

EC No: 201-944-8

Index No: 604-032-00-1

Registration No: -

Classification: Acute Tox. 4 (H302), Skin Corr. 1B (H314),

Aquatic Chronic 2 (H411)

Concentration: < 1%

Component: **Menthol**

CAS No: 89-78-1

EC No: 201-939-0

Index No: 603-001-00-x

Registration No: 01-2119433307-44-xxxx

Classification: Flam. Liq. 2 (H225); Acute Tox 3 (H301 + H311 + H331); STOT SE 1 (H370)

Concentration: < 1%

Component: **Citric Acid (Anhydrous)**

CAS No: 77-92-9

EC No: 201-069-1

Index No:

Registration 01-2119457026-42-XXXX

Classification: Eye Irr 2 (H319)

Concentration: < 1%

3.3 Other Information

Additional non-hazardous ingredients:

DI water

SECTION 4 FIRST AID MEASURES

4.1 Description of first aid measures

Consult a physician. Show this safety data sheet to the doctor in attendance.

In case of eye contact: Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

In case of skin contact: Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Consult a physician if discomfort continues.

If swallowed: Clean mouth with water and drink afterwards plenty of water. Consult a physician.

If inhaled: Move to fresh air. Consult a physician if discomfort continues.

4.2 Most important symptoms and effects, both acute and delayed

The most important symptoms and effects are described in the labelling Section 2.2 and/or Section 11.

4.3 Indication of any immediate medical attention and special treatment needed

Notes to physician: Treat symptomatically. Have facilities in place to wash skin and eyes in case of exposure. Severe cases of exposure should receive prompt medical attention.

Eye contact – May cause eye irritation. May cause redness.

Skin Contact – May irritate the skin.

Ingestion – May irritate the mouth and throat. Small amounts will leave taste in mouth, larger amounts may cause nausea and vomiting.

Inhalation – Acute: May irritate the respiratory system and cause coughing. Delayed: Prolonged exposure to vapours or mists can



PARAVET™ SAFETY DATA SHEET

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cause damage to the mucous membranes of the respiratory system.

SECTION 5 FIRE FIGHTING MEASURES

5.1 Extinguishing media

This product is non-combustible. Water spray, dry powder, carbon dioxide or alcohol resistant foam.

5.2 Special hazards arising from the substance or mixture

In case of fire, toxic or irritating fumes or vapours may be formed. Contact with metals may form hydrogen gas which is flammable and can result in explosion.

5.3 Advice for firefighters

As in any fire, wear self-contained breathing apparatus, MSHA/NIOSH (approved or equivalent) and full protective gear.

SECTION 6 ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation, especially in confined areas.

6.2 Environmental precautions

Should not be released into the environment. Prevent product from entering drains. Prevent further leakage or spillage if safe to do so.

6.3 Methods and material for containment and cleaning up

Absorb spill with inert material (e.g. dry sand or earth), then place in a chemical waste container. After cleaning, flush away traces with water.

6.4 Reference to other sections

For disposal, see Section 13.

SECTION 7 HANDLING AND STORAGE

7.1 Precautions for safe handling

Do not breathe vapours or spray mist. Ensure that ventilation is adequate before using this product. Avoid contact with skin and eyes. Take necessary personal protective precautions before using this product. Keep away from heat and flame.

7.2 Conditions for safe storage, including any incompatibilities

Technical measures/precautions: Store in a tightly closed container. Store in a cool, dry, well-ventilated area away from incompatible substances.

Incompatible products: No information available.

Derived No Effect Level (DNEL): No information available

Predicted No Effect Concentration (PNEC): No information available.

7.3 Specific end use(s)

The identified uses for this product are stated in Section 1.2

SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

The OES for acetic acid has been withdrawn by the HSE. The quoted value is for guidance only.

DNEL –

Industry - Inhalation; Short term local effects: 25 mg/m³

Refers to acetic acid as a pure substance.

No information available for DNEL of the mixture.

Industry - Inhalation; Long term local effects: 25 mg/m³

Consumer - Inhalation; Short term local effects: 25 mg/m³

Consumer - Inhalation; Long term local effects: 25 mg/m³

PNEC –

Fresh water; 3.058 mg/l

Refers to acetic acid as a pure substance.

No information available for PNEC of the mixture.

Marine water; 0.3058 mg/l

Intermittent release; 30.58 mg/l

STP; 85 mg/l

Sediment (Freshwater); 11.36 mg/kg

Sediment (Marinewater); 1.136 mg/kg

Soil; 0.47 mg/kg

Acetic Acid ...% (CAS: 64-19-7)

DNEL –

Workers - Inhalation; Short term local effects: 25 mg/m³

Workers - Inhalation; Long term local effects: 25 mg/m³

General population - Inhalation; Short term local effects: 25 mg/m³

General population - Inhalation; Long term local effects: 25 mg/m³

PNEC –

Fresh water; 3.058 mg/l

Marine water; 0.306 mg/l

STP; 85 mg/l

Sediment (Freshwater); 11.36 mg/kg

Sediment (Marinewater); 1.136 mg/kg

Soil; 0.47 mg/kg

8.2 Exposure controls

Engineering measures: Ensure adequate ventilation, especially in confined areas.

Personal protective equipment

Respiratory protection: No special protective equipment required.

Hand protection: Wear appropriate protective gloves.

Eye protection: Wear tightly fitting safety goggles or safety glasses with side-shields conforming to EN 166.

Skin and body protection: Protective clothing to protect exposed skin.

Hygiene measures: Handle in accordance with good industrial hygiene and safety practice.

Environmental exposure controls: See section 6.2

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

a) Appearance: Brown liquid

b) Colour - Brown

c) Odour: pungent/acetic acid/sweet

d) Odour threshold: no information available

e) pH: about 1

f) Melting point / freezing point: no information available

g) Initial boiling point / boiling range: no information available



PARAVET™ SAFETY DATA SHEET

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- h) Flash point:** Not applicable. The mixture is non-flammable.
- i) Evaporation rate:** no information available
- j) Flammability (solid, gas):** no information available
- k) Upper/lower flammability or explosive limits:** Not applicable. The mixture is non-flammable.
- l) Vapour pressure:** no information available
- m) Vapour density:** no information available
- n) Relative density:** no information available
- o) Solubility (ies):** soluble in water
- p) Partition coefficient: n-octanol/water:** no information available
- q) Auto-ignition temperature:** no information available
- r) Decomposition temperature:** no information available
- s) Viscosity:** no information available
- t) Explosive properties:** no information available
- u) Oxidising properties:** no information available

9.2 Other information: All information can be found in Section 9.1

SECTION 10 STABILITY AND REACTIVITY

10.1 Reactivity

Reactions characteristic of weak acids.

10.2 Chemical stability

Stable at normal ambient temperatures.

10.3 Possibility of hazardous reactions

May react vigorously or exothermically. Pressure may build up if reaction occurs in a sealed container. Will not polymerise.

10.4 Conditions to avoid

Avoid heat, direct sunlight and moisture. Avoid storage in freezing conditions. Avoid storage with incompatible materials. Avoid storage in an unstable manner or in a situation that would result in exposure to the product. It is advisable to store the product within some form of containment to prevent spillages reaching drainage systems.

10.5 Incompatible materials

Alkalis. Oxidising agents. Metals.

10.6 Hazardous decomposition products

Under normal use – none

SECTION 11 TOXICOLOGICAL INFORMATION

11.1 Information of toxicological effects

Acute toxicity:

Product: The mixture has not been tested for toxicological properties. This information refers to acetic acid as a pure substance.

Inhalation: Industry – Dermal; Long term systemic effects 22mg/kg/day Haematological effects

Eye contact: no data available

Skin contact: no data available

Ingestion: Sodium salt of acetic acid, pH 6-7

Skin corrosion/irritation: Dose: 0.5ml, 4 hr, Rabbit Primary dermal irritation index: 1.1 OECD Guideline 404 10% solution. Slightly irritating.

Serious eye damage/eye irritation: OECD 405, rabbit, 10% solution, 4 hour, 0.1ml. Erythema = 2.67, corneal swelling = 87%.

Respiratory or skin sensitisation: no data available

Germ cell mutagenicity: no data available

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

SECTION 12 ECOLOGICAL INFORMATION

12.1 Toxicity

The mixture has not been tested for ecotoxicological properties. The following information contained in section 12 refers to acetic acid as a pure substance.

Acute toxicity – fish: LC₅₀, 96 hours: > 1000 mg/l, Onchorhynchus mykiss (Rainbow trout)

OECD 203 (Fish, Acute Toxicity Test)

Freshwater, semi-static.

Mortality

Acute toxicity – aquatic invertebrates: EC₅₀, 48 hours: > 300.82 mg/l, Daphnia magna

OECD Guideline 202.

Static, freshwater.

Mobility.

Test substance potassium acetate; result based on the acetate ion.

Acute toxicity – aquatic plants: EC₅₀, 72 hours: > 300.82 mg/l, Static, saltwater, Skeletonema costatum.

Test substance potassium acetate; result based on the acetate ion.

Acute toxicity – microorganisms: EC₅₀: 850 mg/l, Industry - Dermal; Long term systemic effects 22 mg/kg/day

Pseudomonas putida, static, freshwater, 16 hour

Acute toxicity – terrestrial: Not available.

Chronic toxicity – fish early life stage: Not available.

Short term toxicity – embryo and sac fry stages: Industry - Dermal;

Long term systemic effects 22 mg/kg/day

No supplied or registered information.

Chronic toxicity – aquatic invertebrates: Not available.

Toxicity to soil: Not available.

Toxicity to terrestrial plants: Not available.

12.2 Persistence and degradability

Phototransformation: Water - DT₅₀: 26.7 days

Degradation by hydroxyl radicals.

Calculated value.

Stability (hydrolysis): Scientifically unjustified.

Biodegradation: Water – Degradation (%) 96%: 20 days

Readily biodegradable – Half life: 2 days

Biological oxygen demand: No information available.

Chemical oxygen demand: No information available.

12.3 Bioaccumulative potential

BCF: 3.16, QSAR calculation. Fish, freshwater. Not bioaccumulating.

12.4 Mobility in soil

No information available.

12.5 Results of PBT and vPvB assessment

PBT or vPvB not classified according to current EC criteria.

12.6 Other adverse effects

No information available.

12.7 Additional information

No information available.



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SECTION 13 DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Waste from residues / unused products: In accordance with local and national regulations. Should not be released into the environment.

Contaminated packaging: Empty containers should be disposed of at an approved waste handling site for recycling or disposal.

Amended sections are indicated by a line in the border. The information supplied in this SDS is correct to the best of our knowledge. We do not accept any liability for loss, injury or damage, which may result from its use.

SECTION 14 TRANSPORT INFORMATION

IATA/DOT/IMDG/TDG - Not regulated

14.1 UN number: Not applicable

14.2 UN proper shipping name: Not applicable

14.3 Transport hazard class(es): Not applicable

14.4 Packing group: Not applicable

14.5 Environmental hazards: Not applicable

14.6 Special precautions for user: Not applicable

14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Not applicable

Annex II of MARPOL 73/78 and the IBC code.

SECTION 15 REGULATORY INFORMATION

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

National regulations: Industry – Dermal; Long term systemic effects 22mg/kg/day

EU legislation: Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (as amended).

Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures (as amended).

Regulation (EU) 453/2010.

Guidance: Approved Classification and Labelling Guide (CHIP 4) ECHA Guidance on the Compilation of Safety Data Sheets, September 2011.

Industry - Dermal; Long term systemic effects 22 mg/kg/day.

15.2 Chemical Safety Assessment

No chemical safety assessment has been carried out on this product.

SECTION 16 OTHER INFORMATION

Full text of H-Statements referred to under sections 2 and 3

H225 - Highly flammable liquid and vapour

H226 – Flammable liquid and vapour

H301 + H311 + H331 - Toxic if swallowed, in contact with skin or if inhaled

H302 - Harmful if swallowed

H314 - Causes severe skin burns and eye damage

H315 - Causes skin irritation

H318 - Causes serious eye damage

H319 - Causes serious eye irritation

H370 - Causes damage to organs

H411 - Toxic to aquatic life with long lasting effects