



SAFETY DATA SHEET

PERADOX

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product name PERADOX
Product number C015 EV
Internal identification P.V26

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

Identified uses Peracetic Acid & Hydrogen Peroxide Disinfectant.

1.3. Details of the supplier of the safety data sheet

Supplier Evans Vanodine International
Brierley Road
Walton Summit
Preston. PR5 8AH

Tel: 01772 322 200
Fax: 01772 626 000
qclab@evansvanodine.co.uk

1.4. Emergency telephone number

Emergency telephone New Safety Data Sheets - 8.30am to 4.45pm - 01772 322 200 - Mon to Fri. (Also available 24/7 from our website www.evansvanodine.co.uk) Technical Advice - 8.30am to 4.45pm - 01772 318 818 - Mon to Fri

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification

Physical hazards

Ox. Liq. 3 - H272

Health hazards

Acute Tox. 4 - H302 Acute Tox. 4 - H312 Acute Tox. 4 - H332 Skin Corr. 1A - H314 STOT SE 3 - H335

Environmental hazards

Aquatic Chronic 1 - H410

Classification (67/548/EEC or 1999/45/EC)

Xn;R20/21/22. C;R34. O;R8.

2.2. Label elements

Pictogram



Signal word Danger

Hazard statements

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H314 Causes severe skin burns and eye damage.

H335 May cause respiratory irritation.

H272 May intensify fire; oxidiser.

H302+H312+H332 Harmful if swallowed, in contact with skin or if inhaled.

H410 Very toxic to aquatic life with long lasting effects.

Precautionary statements

P102 Keep out of reach of children.

P261 Avoid breathing mist.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P271 Use only outdoors or in a well-ventilated area.

P220 Keep away from combustible materials.

P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P315 Get immediate medical advice/attention.

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

Contains

HYDROGEN PEROXIDE SOLUTION ... %, PERACETIC ACID ...%

2.3. Other hazards

This product does not contain any substances classified as PBT or vPvB.

SECTION 3: Composition/information on ingredients**3.2. Mixtures**

HYDROGEN PEROXIDE SOLUTION ... %		20.0%
CAS number: 7722-84-1 EC number: 231-765-0		
Classification	Classification (67/548/EEC or 1999/45/EC)	
Ox. Liq. 1 - H271	R5 O;R8 C;R35 Xn;R20/22	
Acute Tox. 4 - H302		
Acute Tox. 4 - H332		
Skin Corr. 1A - H314		
STOT SE 3 - H335		
Aquatic Chronic 3 - H412		
ACETIC ACID ...%		10.0%
CAS number: 64-19-7 EC number: 200-580-7		
Classification	Classification (67/548/EEC or 1999/45/EC)	
Flam. Liq. 3 - H226	R10 C;R35	
Skin Corr. 1A - H314		

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PERACETIC ACID ...%		5.0%
CAS number: 79-21-0 EC number: 201-186-8		
M factor (Acute) = 1 M factor (Chronic) = 10		
Classification	Classification (67/548/EEC or 1999/45/EC)	
Flam. Liq. 3 - H226	O;R7 R10 C;R35 Xn;R20/21/22 N;R50	
Org. Perox. D - H242		
Acute Tox. 4 - H302		
Acute Tox. 4 - H312		
Acute Tox. 4 - H332		
Skin Corr. 1A - H314		
STOT SE 3 - H335		
Aquatic Acute 1 - H400		
Aquatic Chronic 1 - H410		

The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.

SECTION 4: First aid measures**4.1. Description of first aid measures****Inhalation**

If spray/mist has been inhaled, proceed as follows. Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing.

Ingestion

Do not induce vomiting. Rinse mouth thoroughly with water. Give plenty of water to drink. Get medical attention immediately.

Skin contact

Wash with plenty of water. Get medical attention promptly if symptoms occur after washing.

Eye contact

Rinse immediately with plenty of water. Remove any contact lenses and open eyelids wide apart. Get medical attention immediately. Continue to rinse.

4.2. Most important symptoms and effects, both acute and delayed**General information**

The severity of the symptoms described will vary dependent on the concentration and the length of exposure.

Inhalation

Irritation of nose, throat and airway. Coughing, chest tightness, feeling of chest pressure.

Ingestion

May cause chemical burns in mouth and throat.

Skin contact

Burning pain and severe corrosive skin damage. May cause serious chemical burns to the skin.

Eye contact

Severe irritation, burning and tearing. Prolonged contact causes serious eye and tissue damage.

4.3. Indication of any immediate medical attention and special treatment needed**Notes for the doctor**

Treat symptomatically.

SECTION 5: Firefighting measures**5.1. Extinguishing media****Suitable extinguishing media**

Oxidising - Supports combustion. Extinguish with the following media: Water spray. Foam, carbon dioxide or dry powder.

5.2. Special hazards arising from the substance or mixture**Specific hazards**

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Thermal decomposition or combustion products may include the following substances: Irritating gases or vapours. If involved in fire, may decompose yielding oxygen which will support combustion. Oxidising.

5.3. Advice for firefighters

Protective actions during firefighting

Cool containers exposed to flames with water until well after the fire is out.

Special protective equipment for firefighters

Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions

Wear protective clothing, gloves, eye and face protection. Avoid inhalation of vapours. For personal protection, see Section 8.

6.2. Environmental precautions

Environmental precautions

Spillages or uncontrolled discharges into watercourses must be reported immediately to the Environmental Agency or other appropriate regulatory body.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up

Small Spillages: Flush away spillage with plenty of water. Large Spillages: Contain and absorb spillage with sand, earth or other non-combustible material. Collect and place in suitable waste disposal containers and seal securely.

6.4. Reference to other sections

Reference to other sections

For personal protection, see Section 8.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Usage precautions

Wear protective clothing, gloves, eye and face protection. Avoid inhalation of vapours.

7.2. Conditions for safe storage, including any incompatibilities

Storage precautions

Keep only in the original container in a cool, well-ventilated place. Keep away from flammable and combustible materials. Protect from light.

7.3. Specific end use(s)

Specific end use(s)

The identified uses for this product are detailed in Section 1.2.

Usage description

See Product Information Sheet & Label for detailed use of this product.

SECTION 8: Exposure Controls/personal protection

8.1. Control parameters

Occupational exposure limits

HYDROGEN PEROXIDE SOLUTION ... %

Long-term exposure limit (8-hour TWA): WEL 1 ppm 1,4 mg/m³

Short-term exposure limit (15-minute): WEL 2 ppm 2,8 mg/m³

WEL = Workplace Exposure Limit

8.2. Exposure controls

Protective equipment



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Appropriate engineering controls

This product must not be handled in a confined space without adequate ventilation.

Eye/face protection

The following protection should be worn: Chemical splash goggles or face shield.

Hand protection

Wear protective gloves. Polyvinyl chloride (PVC).

Other skin and body protection

Wear appropriate clothing to prevent any possibility of skin contact.

Respiratory protection

Respiratory protection not required.

SECTION 9: Physical and Chemical Properties

9.1. Information on basic physical and chemical properties

Appearance

Liquid.

Colour

Clear. Colourless.

Odour

Pungent. Acetic acid.

pH

pH (concentrated solution): <1.0

Melting point

-30°C

Initial boiling point and range

65°C @ 760 mm Hg

Flash point

Boils without flashing.

Relative density

1.080 @ 20°C

Solubility(ies)

Soluble in water.

9.2. Other information

Other information

None.

SECTION 10: Stability and reactivity

10.1. Reactivity

Reacts with alkalis and generates heat. The following materials may react strongly with the product: Alkaline earth metals. Powdered metal.

10.2. Chemical stability

Stability

Inadequately vented containers may become pressurised.

10.3. Possibility of hazardous reactions

See sections 10.1, 10.4 & 10.5

10.4. Conditions to avoid

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Avoid exposure to high temperatures or direct sunlight. Avoid Storage above 30°C

10.5. Incompatible materials

Materials to avoid

Strong acids. Aluminium, Tin, Zinc and their alloys.

10.6. Hazardous decomposition products

Oxygen. When heated, vapours/gases hazardous to health may be formed.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Toxicological effects

We have not carried out any animal testing for this product. Any ATE figures quoted below are from Toxicity Classifications that have been carried out using ATE (Acute Toxicity Estimate) Calculation Method using LD50 or ATE figures provided by the Raw Material Manufacturer.

Acute toxicity - oral

Notes (oral LD50)

Classification criteria has been met – Product is classified as Harmful if Swallowed.

ATE oral (mg/kg)

2,000.0

Acute toxicity - dermal

Notes (dermal LD50)

Classification criteria has been met – Product is classified as Harmful in contact with skin.

ATE dermal (mg/kg)

1147.0

Acute toxicity - inhalation

Notes (inhalation LC50)

Classification criteria has been met – Product is classified as Harmful if Inhaled.

ATE inhalation (gases ppm)

18000.0

ATE inhalation (vapours mg/l)

44.0

ATE inhalation (dusts/mists mg/l)

6.0

SECTION 12: Ecological Information

Ecotoxicity

Not regarded as dangerous for the environment.

12.1. Toxicity

We have not carried out any Aquatic testing, therefore we have no Aquatic Toxicity Data specifically for this product. The Aquatic Toxicity Data, where provided by the raw material manufacturer for ingredients with aquatic toxicity, can be made available on request.

12.2. Persistence and degradability

Persistence and degradability

This product, at use dilutions, is readily broken down in biological effluent treatment plants.

12.3. Bioaccumulative potential

The product does not contain any substances expected to be bioaccumulating.

12.4. Mobility in soil

Mobility

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Not known.

12.5. Results of PBT and vPvB assessment

This product does not contain any substances classified as PBT or vPvB.

12.6. Other adverse effects

Not known.

SECTION 13: Disposal considerations**13.1. Waste treatment methods****Disposal methods**

Discharge used solutions to drain. Small amounts (less than 5 Litres) of unwanted product may be flushed with water to sewer. Larger volumes must be sent for disposal as special waste. Rinse out empty container with water and consign to normal waste.

SECTION 14: Transport information**14.1. UN number**

UN No. (ADR/RID)	3149
UN No. (IMDG)	3149
UN No. (ICAO)	3149

14.2. UN proper shipping name

Proper shipping name (ADR/RID) HYDROGEN PEROXIDE AND PEROXYACETIC ACID MIXTURE, STABILIZED

Proper shipping name (IMDG) HYDROGEN PEROXIDE AND PEROXYACETIC ACID MIXTURE, STABILIZED

Proper shipping name (ICAO) HYDROGEN PEROXIDE AND PEROXYACETIC ACID MIXTURE, STABILIZED

Proper shipping name (ADN) HYDROGEN PEROXIDE AND PEROXYACETIC ACID MIXTURE, STABILIZED

14.3. Transport hazard class(es)

ADR/RID class	Division 5.1: Oxidizing substances.
ADR/RID subsidiary risk	Class 8: Corrosive substances.
ADR/RID label	5.1 & 8
IMDG class	Division 5.1: Oxidizing substances.
IMDG subsidiary risk	Class 8: Corrosive substances.
ICAO class/division	Division 5.1: Oxidizing substances.
ICAO subsidiary risk	Class 8: Corrosive substances.

Transport labels**14.4. Packing group**

ADR/RID packing group	II
IMDG packing group	II
ICAO packing group	II

14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant

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Yes.

14.6. Special precautions for user

EmS F-H, S-Q

Tunnel restriction code (E)

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

Not relevant. for a packaged product.

SECTION 15: Regulatory information**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****EU legislation**

Safety Data Sheet prepared in accordance with REACH Commission Regulation (EU) No 453/2010 (which amends Regulation (EC) No 1907/2006). The product is as classified under GHS/CLP- Regulation (EC) No 1272/2008 classification, labelling & packaging of substances & mixtures. Ingredients are listed with classification under both CHIP - Directive 67/548/EEC - classification, packaging & labelling of dangerous substances & GHS/CLP- Regulation (EC) No 1272/2008 classification, labelling & packaging of substances & mixtures.

Guidance

Workplace Exposure Limits EH40.

15.2. Chemical safety assessment

No chemical safety assessment has been carried out as not applicable as this product is a mixture.

SECTION 16: Other information**Key literature references and sources for data**

Material Safety Data Sheet, Misc. manufacturers. CLP Class - Table 3.1 List of harmonised classification and labeling of hazardous substances. CHIP Class - Table 3.2 The list of harmonised classification and labelling of hazardous substances from Annex I to Directive 67/548/EEC. ECHA - C&L Inventory database.

Revision comments

Transport Section 14 changed due to New CLP Classification. & This product is now using classification from GHS/CLP - Regulation (EC) No 1272/2008 classification, labelling & packaging of substances & mixtures.

Revision date 10/04/2015

Revision Issue 8

SDS status The Risk Phrases / Hazard Statements listed below in this Section No 16 relate to the Raw Materials (Ingredients) in the Product (as listed in Section 3) and NOT the product itself. For the Risk Phrases / Hazard Statements relating to this Product see Section 2.

Risk phrases in full

R10 Flammable.
 R20/21/22 Harmful by inhalation, in contact with skin and if swallowed.
 R20/22 Harmful by inhalation and if swallowed.
 R34 Causes burns.
 R35 Causes severe burns.
 R37 Irritating to respiratory system.
 R5 Heating may cause an explosion.
 R50 Very toxic to aquatic organisms.
 R7 May cause fire.
 R8 Contact with combustible material may cause fire.

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Hazard statements in full

H226 Flammable liquid and vapour.
H242 Heating may cause a fire.
H271 May cause fire or explosion; strong oxidiser.
H272 May intensify fire; oxidiser.
H302 Harmful if swallowed.
H312 Harmful in contact with skin.
H314 Causes severe skin burns and eye damage.
H332 Harmful if inhaled.
H335 May cause respiratory irritation.
H400 Very toxic to aquatic life.
H410 Very toxic to aquatic life with long lasting effects.
H412 Harmful to aquatic life with long lasting effects.