



## SAFETY DATA SHEET VANODOX FORMULA

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

#### 1.1. Product identifier

Product name	VANODOX FORMULA
Product number	R047 EV
Internal identification	Livestock
UFI	UFI: 17T2-1GHD-HU4Q-HXWG

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

Identified uses	Peracetic Acid based Liquid disinfectant.
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#### 1.3. Details of the supplier of the safety data sheet

Supplier	UK Supplier:	EU Supplier:
	Evans Vanodine International plc Brierley Road, Walton Summit, Preston. UK. PR5 8AH Tel: 01772 322 200 e-mail: productcompliance@evansvanodine.co.uk	Evans Vanodine Europe 6-9 Trinity Street, Dublin 2. D02 EY47. Republic of Ireland.

#### 1.4. Emergency telephone number

Emergency telephone	New Safety Data Sheets - 01772 322 200 - Mon to Thur. 8.30am to 4.30pm - Fri 8.30am to 1.30pm (Also available 24/7 from our website <a href="http://www.evansvanodine.co.uk">www.evansvanodine.co.uk</a> ) For Technical Advice about this SDS - 01772 318 818 - Mon to Thur 8.30am to 4.45pm - Fri 8.30am to 1.30pm
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National emergency telephone number	For Health Care Professionals only - For use in UK: Contact the National Poisons Information Service for further advice. For use in the Republic of Ireland: To report a poisoning incident contact The National Poisons Information Centre, Beaumont Hospital, Dublin (01-8092166). For use in Malta: Emergency services (Ambulance, Fire and Rescue, Police) : 112
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### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

##### Classification (SI 2019 No. 720)

Physical hazards	Ox. Liq. 3 - H272 Met. Corr. 1 - H290
Health hazards	Acute Tox. 4 - H302 Acute Tox. 4 - H312 Acute Tox. 4 - H332 Skin Corr. 1A - H314 Eye Dam. 1 - H318 STOT SE 3 - H335
Environmental hazards	Aquatic Chronic 1 - H410

#### 2.2. Label elements

##### Hazard pictograms



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<b>Signal word</b>	Danger
<b>Hazard statements</b>	H272 May intensify fire; oxidiser. H290 May be corrosive to metals. H302+H312+H332 Harmful if swallowed, in contact with skin or if inhaled. H314 Causes severe skin burns and eye damage. H335 May cause respiratory irritation. H410 Very toxic to aquatic life with long lasting effects.
<b>Precautionary statements</b>	P102 Keep out of reach of children. P261 Avoid breathing mist. P270 Do not eat, drink or smoke when using this product. P271 Use only outdoors or in a well-ventilated area. P280 Wear protective gloves/ protective clothing/ eye protection/ face protection. 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 or 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. P403+P235 Store in a well-ventilated place. Keep cool. P501 Dispose of contents/ container in accordance with local regulations.
<b>Supplemental label information</b>	EUH071 Corrosive to the respiratory tract.
<b>Contains</b>	HYDROGEN PEROXIDE SOLUTION ... %, ACETIC ACID ...%, 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

<b>HYDROGEN PEROXIDE SOLUTION ... %</b>	<b>20-25%</b>
CAS number: 7722-84-1	EC number: 231-765-0
Spec Conc Limits :- Ox. Liq. 1 (H271) >=70%, Ox. Liq. 2 (H272) >=50% <70%, Skin Corr. 1A (H314) >=70%, Skin Corr. 1B (H314) >=50% <70%, Skin Irrit. 2 (H315) >=35% <50%, STOT SE 3 (H335) >=35%, Eye Dam. 1 (H318) >=8% <50%, Eye Irrit. 2 (H319) >=5% <8%	
<b>Classification</b>	
Ox. Liq. 1 - H271	
Acute Tox. 4 - H302	
Acute Tox. 4 - H332	
Skin Corr. 1A - H314	
Eye Dam. 1 - H318	
STOT SE 3 - H335	
Aquatic Chronic 3 - H412	



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

<b>General information</b>	The severity of the symptoms described will vary dependent on the concentration and the length of exposure.
<b>Inhalation</b>	Irritation of nose, throat and airway. Coughing, chest tightness, feeling of chest pressure.
<b>Ingestion</b>	May cause chemical burns in mouth and throat.
<b>Skin contact</b>	Burning pain and severe corrosive skin damage. May cause serious chemical burns to the skin.
<b>Eye contact</b>	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

<b>Notes for the doctor</b>	Treat symptomatically.
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## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

<b>Suitable extinguishing media</b>	Oxidising - Supports combustion. Extinguish with the following media: Water spray. Foam, carbon dioxide or dry powder.
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### 5.2. Special hazards arising from the substance or mixture

<b>Specific hazards</b>	Oxidising. The product increases the risk of fire and may accelerate combustion. Thermal decomposition or combustion products may include the following substances: Irritating gases or vapours.
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### 5.3. Advice for firefighters

<b>Special protective equipment for firefighters</b>	Keep containers cool by spraying with water to reduce explosion risks. Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing.
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## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

<b>Personal precautions</b>	Wear protective clothing, gloves, eye and face protection. Avoid inhalation of vapours.
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### 6.2. Environmental precautions

<b>Environmental precautions</b>	Spillages or uncontrolled discharges into watercourses must be reported immediately to the Environmental Agency or other appropriate regulatory body.
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### 6.3. Methods and material for containment and cleaning up

<b>Methods for cleaning up</b>	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.
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### 6.4. Reference to other sections

<b>Reference to other sections</b>	For personal protection, see Section 8.
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## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

<b>Usage precautions</b>	Wear protective clothing, gloves, eye and face protection.
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### 7.2. Conditions for safe storage, including any incompatibilities

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**Storage precautions** Keep only in the original container in a cool, well-ventilated place. Protect from light. Store away from the following materials: Flammable/combustible materials. Alkalis. & Common metals.

### 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/m<sup>3</sup>

Short-term exposure limit (15-minute): WEL 2 ppm 2,8 mg/m<sup>3</sup>

WEL = Workplace Exposure Limit.

### 8.2. Exposure controls

#### **Protective equipment**



#### **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

<b>Appearance</b>	Liquid.
<b>Colour</b>	Clear. Colourless.
<b>Odour</b>	Acetic acid.
<b>pH</b>	pH (concentrated solution): 1.40
<b>Melting point</b>	-28°C
<b>Initial boiling point and range</b>	Technically not feasible.
<b>Flash point</b>	Technically not feasible.
<b>Relative density</b>	1.100 @ 20°C
<b>Solubility(ies)</b>	Soluble in water.
<b>Decomposition Temperature</b>	>= 60°C Self-Accelerating decomposition temperature (SADT).

### 9.2. Other information

**Other information** None.

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### SECTION 10: Stability and reactivity

#### 10.1. Reactivity

**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

**Possibility of hazardous reactions** See sections 10.1,10.4 & 10.5

#### 10.4. Conditions to avoid

**Conditions to avoid** Avoid exposure to high temperatures or direct sunlight. Keep at temperature not exceeding 30°C.

#### 10.5. Incompatible materials

**Materials to avoid** Strong acids. Aluminium, Tin, Zinc and their alloys.

#### 10.6. Hazardous decomposition products

**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 LD<sub>50</sub>)** Classification criteria has been met – Product is classified as Harmful if Swallowed.

**ATE oral (mg/kg)** 1,291.24

#### Acute toxicity - dermal

**Notes (dermal LD<sub>50</sub>)** Classification criteria has been met – Product is classified as Harmful in contact with skin.

**ATE dermal (mg/kg)** 1,100.0

#### Acute toxicity - inhalation

**Notes (inhalation LC<sub>50</sub>)** Classification criteria has been met – Product is classified as Harmful if Inhaled.

**ATE inhalation (vapours mg/l)** 11.0

### SECTION 12: Ecological information

**Ecotoxicity** Very toxic to aquatic life with long lasting effects.

#### 12.1. Toxicity

**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.

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### 12.3. Bioaccumulative potential

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

### 12.4. Mobility in soil

**Mobility**      Not known.

### 12.5. Results of PBT and vPvB assessment

**Results of PBT and vPvB assessment**      This product does not contain any substances classified as PBT or vPvB.

### 12.6. Other adverse effects

**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

### 14.3. Transport hazard class(es)

**ADR/RID class**      Division 5.1: Oxidising substances.

**ADR/RID subsidiary risk**      Class 8: Corrosive substances.

**ADR/RID label**      5.1 & 8

**IMDG class**      Division 5.1: Oxidising substances.

**IMDG subsidiary risk**      Class 8: Corrosive substances.

**ICAO class/division**      Division 5.1: Oxidising substances.

**ICAO subsidiary risk**      Class 8: Corrosive substances.

### **Transport labels**



### 14.4. Packing group

**ADR/RID packing group**      II

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IMDG packing group II

ICAO packing group II

### 14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant



### 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 MARPOL and the IBC Code

Transport in bulk according to Annex II of MARPOL 73/78 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 EU Regulation: "REACH Commission Regulation (EU) No 2015/830 (which amends Regulation (EC) No 453/2010 & 1907/2006)." and UK Regulation: "SI 2020 No. 1577 - The REACH etc. (Amendment etc.) (EU Exit) Regulations 2020".

The product is as classified under - EU GHS: CLP - "Regulation (EC) No 1272/2008 classification, labelling & packaging of substances & mixtures." and UK GHS: "SI 2020 No. 1567 - The Chemicals (Health and Safety) and Genetically Modified Organisms (Contained Use) (Amendment etc.) (EU Exit) Regulations 2020".

Ingredients are listed with classification under - EU GHS: CLP - "Regulation (EC) No 1272/2008 classification, labelling & packaging of substances & mixtures." and UK GHS: "SI 2020 No. 1567 - The Chemicals (Health and Safety) and Genetically Modified Organisms (Contained Use) (Amendment etc.) (EU Exit) Regulations 2020".

### 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

#### Abbreviations and acronyms used in the safety data sheet

PBT: Persistent, Bioaccumulative and Toxic substance.

vPvB: Very Persistent and Very Bioaccumulative.

ATE: Acute Toxicity Estimate.

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.

IMDG: International Maritime Dangerous Goods.

ICAO: Technical Instructions for the Safe Transport of Dangerous Goods by Air.

REACH: The REACH etc. (Amendment etc.) (EU Exit) Regulations 2020 No. 1577.

GHS: Globally Harmonized System.

Spec Conc Limits = Specific Concentration Limits.



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<b>Classification abbreviations and acronyms</b>	<p>Acute Tox. = Acute toxicity          Aquatic Acute = Hazardous to the aquatic environment (acute)          Aquatic Chronic = Hazardous to the aquatic environment (chronic)          Eye Dam. = Serious eye damage          Eye Irrit. = Eye irritation          Flam. Liq. = Flammable liquid          Org. Perox. = Organic peroxide          Ox. Liq. = Oxidising liquid          Met. Corr. = Corrosive to metals          Skin Corr. = Skin corrosion          Skin Irrit. = Skin irritation          STOT SE = Specific target organ toxicity-single exposure</p>
<b>Key literature references and sources for data</b>	Material Safety Data Sheet, Miscellaneous manufacturers. CLP Class - Table 3.1 List of harmonised classification and labelling of hazardous substances. ECHA - C&L Inventory database.
<b>Classification procedures according to SI 2019 No. 720</b>	Calculation Method.
<b>Revision comments</b>	Addition of EUH071 statement. & UFI No. (Changes made to sections 1,2+16)
<b>Revision date</b>	29/06/2022
<b>Revision</b>	7
<b>SDS status</b>	The 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 Hazard Statements relating to this Product see Section 2.
<b>Hazard statements in full</b>	<p>H226 Flammable liquid and vapour.          H242 Heating may cause a fire.          H271 May cause fire or explosion; strong oxidiser.          H272 May intensify fire; oxidiser.          H290 May be corrosive to metals.          H302 Harmful if swallowed.          H312 Harmful in contact with skin.          H314 Causes severe skin burns and eye damage.          H318 Causes serious 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.</p>