



## SAFETY DATA SHEET V18

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

#### 1.1. Product identifier

**Product name** V18  
**Product number** R073 EV  
**Internal identification** Livestock

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

**Identified uses** Acidic based Iodine disinfectant for animal hygiene.

#### 1.3. Details of the supplier of the safety data sheet

##### Supplier

Evans Vanodine International  
Brierley Road  
Walton Summit  
Preston. UK. 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](http://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 (EC 1272/2008)

**Physical hazards** Not Classified  
**Health hazards** Skin Corr. 1B - H314 Eye Dam. 1 - H318  
**Environmental hazards** Not Classified

#### 2.2. Label elements

##### Pictogram



**Signal word** Danger  
**Hazard statements** H314 Causes severe skin burns and eye damage.

## V18

<b>Precautionary statements</b>	<p>P102 Keep out of reach of children.</p> <p>P260 Do not breathe mist.</p> <p>P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.</p> <p>P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.</p> <p>P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower.</p> <p>P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.</p> <p>P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.</p> <p>P315 Get immediate medical advice/ attention.</p> <p>P501 Dispose of contents/ container in accordance with local regulations.</p>
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**Contains** SULPHURIC ACID, PHOSPHORIC 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>ALCOHOL (C9-11) ETHOXYLATE (8EO)</b> <span style="float: right;"><b>20-25%</b></span> CAS number: 68439-45-2 Alternative CAS No 13598-36-2
<b>Classification</b> Acute Tox. 4 - H302 Eye Dam. 1 - H318
<b>SULPHURIC ACID</b> <span style="float: right;"><b>5-10%</b></span> CAS number: 7664-93-9                      EC number: 231-639-5 Spec Conc Limits :- Skin Corr. 1A (H314) ≥ 15 %, Skin Irrit.2 (H315) >5% <15 %, Eye Irrit. 2 (H319) >5%<15%
<b>Classification</b> Skin Corr. 1A - H314 Eye Dam. 1 - H318
<b>PHOSPHORIC ACID</b> <span style="float: right;"><b>5-10%</b></span> CAS number: 7664-38-2                      EC number: 231-633-2 Spec Conc Limits :- Skin Corr. 1B (H314) ≥ 25%, Skin Irrit. 2 (H315) >10% <25%, Eye Irrit. 2 (H319) >10%
<b>Classification</b> Skin Corr. 1B - H314 Eye Dam. 1 - H318

## V18

<b>IODINE</b>	<b>1-3%</b>
CAS number: 7553-56-2	EC number: 231-442-4
M factor (Acute) = 1	
<b>Classification</b> Acute Tox. 4 - H312 Acute Tox. 4 - H332 Skin Irrit. 2 - H315 Eye Irrit. 2 - H319 STOT SE 3 - H335 Aquatic Acute 1 - H400	

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

<b>Inhalation</b>	Unlikely route of exposure as the product does not contain volatile substances. 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.
<b>Ingestion</b>	Do not induce vomiting. Rinse mouth thoroughly with water. Give plenty of water to drink. Get medical attention immediately.
<b>Skin contact</b>	Wash with plenty of water. Get medical attention promptly if symptoms occur after washing.
<b>Eye contact</b>	Rinse immediately with plenty of water. Remove any contact lenses and open eyelids wide apart. Continue to rinse. Get medical attention immediately.

#### 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.
<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

**Suitable extinguishing media** The product is not flammable. Use fire-extinguishing media suitable for the surrounding fire.

#### 5.2. Special hazards arising from the substance or mixture

**Specific hazards** Thermal decomposition or combustion products may include the following substances:  
Irritating gases or vapours.

#### 5.3. Advice for firefighters

## V18

**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. 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** Flush away spillage with plenty of water. Small 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.

#### 7.2. Conditions for safe storage, including any incompatibilities

**Storage precautions** Keep only in the original container in a cool, well-ventilated place. Store away from the following materials: Oxidising materials.

#### 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

##### **SULPHURIC ACID**

Long-term exposure limit (8-hour TWA): WEL 0,05 mg/m<sup>3</sup>

Short-term exposure limit (15-minute): WEL

##### **PHOSPHORIC ACID**

Long-term exposure limit (8-hour TWA): WEL 1 mg/m<sup>3</sup>

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

##### **IODINE**

Short-term exposure limit (15-minute): WEL 0.1 ppm 1.1 mg/m<sup>3</sup>

WEL = Workplace Exposure Limit

#### 8.2. Exposure controls

##### **Protective equipment**



## V18

<b>Appropriate engineering controls</b>	This product must not be handled in a confined space without adequate ventilation.
<b>Eye/face protection</b>	The following protection should be worn: Chemical splash goggles or face shield.
<b>Hand protection</b>	Wear protective gloves. Polyvinyl chloride (PVC).
<b>Other skin and body protection</b>	Wear appropriate clothing to prevent any possibility of skin contact.
<b>Respiratory protection</b>	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. Dark brown.
<b>Odour</b>	Faint surfactant / Faint Iodine.
<b>pH</b>	pH (concentrated solution): 0
<b>Melting point</b>	-2°C
<b>Initial boiling point and range</b>	102°C @ 760 mm Hg
<b>Flash point</b>	Boils without flashing.
<b>Relative density</b>	1.170 @ 20°C
<b>Solubility(ies)</b>	Soluble in water.

#### 9.2. Other information

<b>Other information</b>	None.
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### SECTION 10: Stability and reactivity

#### 10.1. Reactivity

<b>Reactivity</b>	Reacts with alkalis and generates heat.
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#### 10.2. Chemical stability

<b>Stability</b>	No particular stability concerns.
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#### 10.3. Possibility of hazardous reactions

<b>Possibility of hazardous reactions</b>	See sections 10.1, 10.4 & 10.5
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#### 10.4. Conditions to avoid

<b>Conditions to avoid</b>	Avoid exposure to high temperatures or direct sunlight.
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#### 10.5. Incompatible materials

<b>Materials to avoid</b>	Aluminium, Tin, Zinc and their alloys. Strong alkalis. Chlorine releasing materials will liberate toxic chlorine gas. Oxidising agents as Iodine vapour may be evolved.
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#### 10.6. Hazardous decomposition products

<b>Hazardous decomposition products</b>	When heated, vapours/gases hazardous to health may be formed.
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### SECTION 11: Toxicological information

## V18

### 11.1. Information on toxicological effects

**Toxicological effects**                      Figures quoted below were from ATE (Acute Toxicity Estimate) Calculation Methods using LD50 or ATE figures provided by the raw material manufacturer.

#### Acute toxicity - oral

**Notes (oral LD<sub>50</sub>)**                              Based on available data the classification criteria are not met.

**ATE oral (mg/kg)**                              4,131.78307724

#### Acute toxicity - dermal

**Notes (dermal LD<sub>50</sub>)**                              Based on available data the classification criteria are not met.

**ATE dermal (mg/kg)**                              50,179.98560384

#### Acute toxicity - inhalation

**Notes (inhalation LC<sub>50</sub>)**                              Based on available data the classification criteria are not met.

**ATE inhalation (vapours mg/l)**                      387.35427484

### SECTION 12: Ecological Information

**Ecotoxicity**                                      The product may affect the acidity (pH) of water which may have hazardous effects on aquatic organisms.

#### 12.1. Toxicity

**Toxicity**    No Aquatic Toxicity Data for this product. Any data for ingredients with aquatic toxicity provided by the raw material manufacturer can be made available on request.

#### 12.2. Persistence and degradability

**Persistence and degradability**                      The surfactant(s) contained in this product complies(comply) with the biodegradability criteria as laid down in Regulation (EC) No. 648/2004 on detergents.

#### 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)**                              3264

**V18**

UN No. (IMDG) 3264

UN No. (ICAO) 3264

**14.2. UN proper shipping name**

**Proper shipping name (ADR/RID)** CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (sulphuric acid & phosphoric acid solution)

**Proper shipping name (IMDG)** CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (sulphuric acid & phosphoric acid solution)

**Proper shipping name (ICAO)** CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (sulphuric acid & phosphoric acid solution)

**14.3. Transport hazard class(es)**

**ADR/RID class** Class 8 : Corrosive Substances.

**ADR/RID label** 8

**IMDG class** Class 8: Corrosive substances.

**ICAO class/division** 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**

No.

**14.6. Special precautions for user**

**EmS** F-A, S-B

**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 REACH Commission Regulation (EU) No 2015/830 (which amends Regulation (EC) No 453/2010 & 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 GHS/CLP - Regulation (EC) No 1272/2008 classification, labelling & packaging of substances & mixtures.

## V18

### 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

<b>Abbreviations and acronyms used in the safety data sheet</b>	<p>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-TI: Technical Instructions for the Safe Transport of Dangerous Goods by Air.  REACH: Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006.  GHS: Globally Harmonized System.  Spec Conc Limits = Specific Concentration Limits.</p>
<b>Classification abbreviations and acronyms</b>	<p>Acute Tox. = Acute toxicity  Aquatic Acute = Hazardous to the aquatic environment (acute)  Eye Dam. = Serious eye damage  Eye Irrit. = Eye irritation  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>	<p>Material Safety Data Sheet, Miscellaneous manufacturers. CLP Class - Table 3.1 List of harmonised classification and labeling of hazardous substances. ECHA - C&amp;L Inventory database.</p>
<b>Classification procedures according to Regulation (EC) 1272/2008</b>	<p>Calculation Method.</p>
<b>Revision comments</b>	<p>Safety Data Sheet amended in accordance with REACH Commission Regulation (EU) No 2015/830 amendment. (Changes to Sections 2,3,15&amp;16)</p>
<b>Revision date</b>	<p>17/11/2017</p>
<b>Revision</b>	<p>10</p>
<b>SDS status</b>	<p>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.</p>
<b>Hazard statements in full</b>	<p>H302 Harmful if swallowed.  H312 Harmful in contact with skin.  H314 Causes severe skin burns and eye damage.  H315 Causes skin irritation.  H318 Causes serious eye damage.  H319 Causes serious eye irritation.  H332 Harmful if inhaled.  H335 May cause respiratory irritation.  H400 Very toxic to aquatic life.</p>