

SDS conforms with EU Regulation: "REACH Commission Regulation (EU) No 2020/878 (which amends (EC) No 2015/830, 453/2010 & 1907/2006)" and UK Regulation: "SI 2020 No. 1577 - The REACH etc. (Amendment etc.) (EU Exit) Regulations 2020".



## SAFETY DATA SHEET VANOSOLVE

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

#### 1.1. Product identifier

Product name	VANOSOLVE
Product number	C012 EV
Internal identification	Professional Hygiene
UFI	UFI: H104-WNP5-W00C-9UPU

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

Identified uses	Heavy Duty, Acidic Descaling Cleaner.
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#### 1.3. Details of the supplier of the safety data sheet

Supplier	<p>UK Supplier:</p> <p>Evans Vanodine International plc, Brierley Road, Walton Summit, Preston, PR5 8AH, UK. Tel: 01772 322 200. e-mail: productcompliance@evansvanodine.co.uk</p>	<p>EU Supplier:</p> <p>Evans Vanodine Europe (FR), 3 Boulevard de Belfort, 1st Floor, Lille, 59000, France. Tel: +33 (0)3 76 04 21 87.</p>
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#### 1.4. Emergency telephone number

Emergency telephone	<p>New Safety Data Sheets - 01772 322 200 - Mon to Thurs 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 Thurs 8.00am to 5.30pm</p>
National emergency Telephone number	<p>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 – 8am to 10pm every day). For use in Malta: Emergency services (Ambulance, Fire and Rescue, Police) : 112</p>

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture Classification (EU: 1272/2008 & UK: SI 2020/1567 which amends SI 2019 No. 720)

Physical hazards	Not Classified
Health hazards	Skin Irrit. 2 - H315 Eye Dam. 1 - H318 STOT SE 3 - H335
Environmental hazards	Not Classified

#### 2.2. Label elements

Hazard pictograms



Signal word

Danger

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Hazard statements	H315 Causes skin irritation. H318 Causes serious eye damage. H335 May cause respiratory irritation.
Precautionary statements	P102 Keep out of reach of children. P261 Avoid breathing vapours. P271 Use only outdoors or in a well-ventilated area. P280 Wear protective gloves/ protective clothing/ eye protection/ face protection. P301+P313 IF SWALLOWED: Get medical advice/ attention. P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing. P315 Get immediate medical advice/ attention. P302+P352 IF ON SKIN: Wash with plenty of water. P332+P313 If skin irritation occurs: Get medical advice/ attention. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P337+P313 If eye irritation persists: Get medical advice/ attention. P403+P233 Store in a well-ventilated place. Keep container tightly closed. P501 Dispose of contents/ container in accordance with local regulations.
Contains	HYDROCHLORIC ACID.

2.3. Other hazards

This product does not contain any substances classified as PBT or vPvB. Including - Endocrine disrupting properties: None known.

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

HYDROCHLORIC ACID ...% <span style="float: right;">15-20%</span> CAS number: 7647-01-0                      EC number: 231-595-7 Spec Conc Limits :- Skin Corr. 1B (H314) ≥ 25%, Skin Irrit. 2 (H315) >10% <25%, Eye Irrit. 2 (H319) >10% <25%, STOT SE 3 (H335) ≥ 10%
Classification Met. Corr. 1 - H290 Skin Corr. 1B - H314 Eye Dam. 1 - H318 STOT SE 3 - H335
ALCOHOL (C9-C11) ETHOXYLATE (6EO) <span style="float: right;">1-3%</span> CAS number: 68439-46-3 Alternative CAS No 68439-45-2
Classification Acute Tox. 4 - H302 Eye Dam. 1 - H318

The Full Text for all Hazard Statements are Displayed in Section 16.

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## SECTION 4: First aid measures

### 4.1. Description of first aid measures

Inhalation	Move affected person to fresh air at once. Get medical attention if any discomfort continues.
Ingestion	Do not induce vomiting. Give plenty of water to drink. Get medical attention.
Skin contact	Wash with plenty of water. Get medical attention if irritation persists after washing.
Eye contact	Rinse with water. Remove any contact lenses and open eyelids wide apart. Get medical attention if any discomfort continues.

### 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.
Ingestion	May cause discomfort if swallowed.
Skin contact	Skin irritation. Prolonged skin contact may cause redness and irritation.
Eye contact	May cause temporary eye irritation. Prolonged contact may cause redness and/or tearing.

### 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      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

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      Avoid inhalation of vapours. 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      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.

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**SECTION 7: Handling and storage**7.1. Precautions for safe handling

Usage precautions                      Avoid inhalation of vapours. Wear protective clothing, gloves, eye and face protection. DO NOT mix with other chemicals.

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. (eg Hypochlorite / Bleach) & Alkalis.

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**HYDROCHLORIC ACID**

Long-term exposure limit (8-hour TWA): WEL 1 ppm 2 mg/m<sup>3</sup> gas and aerosol mists

Short-term exposure limit (15-minute): WEL 5 ppm 8 mg/m<sup>3</sup> gas and aerosol mists

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                      Wear eye protection.

Hand protection                      Wear protective gloves. (Household rubber gloves.)

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. Straw.

Odour                      Characteristic. Hydrochloric acid.

pH                      pH (concentrated solution): 0.0

Melting point                      -2°C

Initial boiling point and range                      102°C @ 760 mm Hg

Flash point                      Boils without flashing.

Flammability (solid, gas)                      Not applicable.

Upper/lower flammability or explosive limits                      Not applicable.

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Vapour pressure	Not available.
Vapour density	Not available.
Relative density	1.100 @ 20°C
Solubility(ies)	Soluble in water.
Partition coefficient	Not applicable.
Auto-ignition temperature	Not applicable.
Decomposition Temperature	Not applicable.
Viscosity	Not available.

9.2. Other information

Other information	None.
Particle size	Not applicable.

**SECTION 10: Stability and reactivity**10.1. Reactivity

Reactivity	Reacts with alkalis and generates heat.
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10.2. Chemical stability

Stability	No particular stability concerns.
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10.3. Possibility of hazardous reactions

Possibility of hazardous	See sections 10.1, 10.4 & 10.5 reactions
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10.4. Conditions to avoid

Conditions to avoid	There are no known conditions that are likely to result in a hazardous situation.
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10.5. Incompatible materials

Materials to avoid	Strong alkalis. Chlorine releasing materials will liberate toxic chlorine gas.
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10.6. Hazardous decomposition products

Hazardous decomposition	No known hazardous decomposition products. products
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**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.
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Other health effects	Low oral toxicity, but ingestion may cause irritation of the gastro-intestinal tract.
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Acute toxicity - oral

Notes (oral LD <sub>50</sub> )	Based on available data the classification criteria are not met. >2000mg/kg
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ATE oral (mg/kg)	100,000.0
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Acute toxicity - dermal

Summary	Not applicable.
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Acute toxicity - inhalation

Summary	Not applicable.
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Skin corrosion/irritation

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Skin corrosion/irritation Causes skin irritation.

Serious eye damage/irritation

Serious eye damage/irritation Causes serious eye damage.

Respiratory sensitisation

Summary Not applicable.

Skin sensitisation

Summary Not applicable.

Germ cell mutagenicity

Summary Not applicable.

Carcinogenicity

Summary Not applicable.

Reproductive toxicity

Summary Not applicable.

Specific target organ toxicity - single exposure

Summary Not applicable.

Specific target organ toxicity - repeated exposure

STOT - repeated exposure May cause respiratory irritation.

Target organs Respiratory system, lungs

Aspiration hazard

Summary Not applicable.

11.2. Information on other Hazards None known.

11.2.1 Endocrine disrupting properties None known.

**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 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

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

Partition coefficient Not applicable.

12.4. Mobility in soil

Mobility Not known.

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### 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. Endocrine disrupting properties      None known.

### 12.7. Other adverse effects

Other adverse effects      None 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 by approved waste contractor. Consign empty container to normal waste.

## SECTION 14: Transport information

General      1L As supplied, this product is consigned under the Limited Quantities provisions.

### 14.1. UN number

UN No. (ADR/RID)      1789

UN No. (IMDG)      1789

UN No. (ICAO)      1789

### 14.2. UN proper shipping name

Proper shipping name (ADR/RID)      HYDROCHLORIC ACID 19% SOLUTION

Proper shipping name (IMDG)      HYDROCHLORIC ACID 19% SOLUTION

Proper shipping name (ICAO)      HYDROCHLORIC ACID 19% 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

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Tunnel restriction code (E)

14.7. Maritime transport in bulk according to IMO instruments

Transport in bulk according to Annex II of MARPOL 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

Legislation

Safety Data Sheet prepared in accordance with EU Regulation: "REACH Commission Regulation (EU) No 2020/878 (which amends Regulation (EC) No 2015/830, 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." (which amends SI 2019 No.720).

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." (which amends SI 2019 No.720).

**For the Northern Ireland and EU markets: this product falls under Regulation (EU) 2019/1148 of 20 June 2019 on the marketing and use of explosives precursors. **Proof of identity, customer details and intended use data are required from each customer every 12 months.****

15.2. Chemical safety assessment

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

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## SECTION 16: Other information

Abbreviations and acronyms used in the safety data sheet	<p>PBT: Persistent, Bioaccumulative and Toxic substance.</p> <p>vPvB: Very Persistent and Very Bioaccumulative.</p> <p>ATE: Acute Toxicity Estimate.</p> <p>ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.</p> <p>IMDG: International Maritime Dangerous Goods.</p> <p>ICAO: Technical Instructions for the Safe Transport of Dangerous Goods by Air.</p> <p>REACH: The REACH etc. (Amendment etc.) (EU Exit) Regulations 2020 No. 1577.</p> <p>GHS: Globally Harmonized System.</p> <p>Spec Conc Limits = Specific Concentration Limits.</p>
Classification abbreviations and acronyms	<p>Acute Tox. = Acute toxicity</p> <p>Eye Dam. = Serious eye damage</p> <p>Eye Irrit. = Eye irritation</p> <p>Met. Corr. = Corrosive to metals</p> <p>Skin Corr. = Skin corrosion</p> <p>Skin Irrit. = Skin irritation</p> <p>STOT SE = Specific target organ toxicity-single exposure</p>
Key literature references and sources for data	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.
Classification procedures	Calculation Method.
Revision comments	<p>Addition of Regulation (EU) 2019/1148 to Sec 15.</p> <p>Also New Evans Logo &amp; EU Address - No change in Product Classification.</p> <p>(Changes made to sections 1,15+16)</p>
Revision date	09/07/2024
Revision	9
Hazard statements in full	<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> <p>H290 May be corrosive to metals.</p> <p>H302 Harmful if swallowed.</p> <p>H314 Causes severe skin burns and eye damage.</p> <p>H315 Causes skin irritation.</p> <p>H318 Causes serious eye damage.</p> <p>H335 May cause respiratory irritation.</p>