



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 Janitorial - Washroom Hygiene Section

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

Identified uses Heavy Duty, Acidic Descaling Cleaner

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**

Not Classified

Health hazards

Skin Irrit. 2 - H315 Eye Irrit. 2 - H319 STOT SE 3 - H335

Environmental hazards

Not Classified

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

Xi;R36/37/38.

2.2. Label elements**Pictogram**

Signal word Warning

Hazard statements

VANOSOLVE

- H315 Causes skin irritation.
- H335 May cause respiratory irritation.
- H319 Causes serious eye 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 IF SWALLOWED:
- P313 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.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

HYDROCHLORIC ACID ...%	15-20%
CAS number: 7647-01-0 EC number: 231-595-7	
Classification	Classification (67/548/EEC or 1999/45/EC)
Skin Corr. 1B - H314	C;R34 Xi;R37
Eye Dam. 1 - H318	
STOT SE 3 - H335	

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

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

VANOSOLVE

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.

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)

7.3. Specific end use(s)

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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/m³ gas and aerosol mists

Short-term exposure limit (15-minute): WEL 5 ppm 8 mg/m³ gas and aerosol mists

HYDROGEN CHLORIDE

Long-term exposure limit (8-hour TWA): WEL 1 ppm 2 mg/m³

Short-term exposure limit (15-minute): WEL 5 ppm 8 mg/m³

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

Melting point

-2°C

Initial boiling point and range

102°C @ 760 mm Hg

Flash point

Boils without flashing.

Relative density

VANOSOLVE

1.100 @ 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.

10.2. Chemical stability

Stability

No particular stability concerns.

10.3. Possibility of hazardous reactions

See sections 10.1,10.4 & 10.5

10.4. Conditions to avoid

There are no known conditions that are likely to result in a hazardous situation.

10.5. Incompatible materials

Materials to avoid

Concentrated alkaline materials. Chlorine releasing materials will liberate toxic chlorine gas.

10.6. Hazardous decomposition products

No known hazardous decomposition products.

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.

Other health effects

Low oral toxicity, but ingestion may cause irritation of the gastro-intestinal tract.

SECTION 12: Ecological Information

Ecotoxicity

Potentially hazardous due to the acidity of the product.

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

Not known.

VANOSOLVE

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 by approved waste contractor. Consign empty container to normal waste.

SECTION 14: Transport information

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
Proper shipping name (ADN)	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
Emergency Action Code	
Hazard Identification Number (ADR/RID)	
Tunnel restriction code	(E)

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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

This product is now using classification from GHS/CLP - Regulation (EC) No 1272/2008 classification, labelling & packaging of substances & mixtures.

Revision date	24/12/2014
Revision	Issue 5
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

R34 Causes burns.
R36/37/38 Irritating to eyes, respiratory system and skin.
R37 Irritating to respiratory system.

Hazard statements in full

H314 Causes severe skin burns and eye damage.
H315 Causes skin irritation.
H318 Causes serious eye damage.
H319 Causes serious eye irritation.
H335 May cause respiratory irritation.