

SAFETY DATA SHEET VANOSOLVE

SECTION 1: Identification of t	the substance/mixture and of the company/undertaking
1.1. Product identifier	
Product name	VANOSOLVE
Product number	C012 EV
Internal identification	Janitorial
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. UK. PR5 8AH Tel: 01772 322 200
	Fax: 01772 626 000
	qclab@evansvanodine.co.uk
1.4. Emergency telephone nu	
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 identified	cation
2.1. Classification of the subs	tance or mixture
Classification (EC 1272/2008)	
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	
Pictogram	
Signal word	Danger
Hazard statements	H315 Causes skin irritation.
	H318 Causes serious eye damage.
	H335 May cause respiratory irritation.

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

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

C9-11 ALCOHOL ETHOXYLATE (6.5 EO)

CAS number: 68439-45-2

Classification

Acute Tox. 4 - H302 Eye Dam. 1 - H318

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.

0.1-1%

15-20%

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

4.2. Most important symptoms		
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 immedia	te medical attention and special treatment needed	
Notes for the doctor	Treat symptomatically.	
SECTION 5: Firefighting meas	sures	
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	om 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 releas	e measures	
6.1. Personal precautions, protective equipment and emergency procedures		
	tective equipment and emergency procedures	
Personal precautions	Avoid inhalation of vapours. Wear protective clothing, gloves, eye and face protection. For personal protection, see Section 8.	
· · · · · · · · · · · · · · · · · · ·	Avoid inhalation of vapours. Wear protective clothing, gloves, eye and face protection. For personal protection, see Section 8.	
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Personal precautions 6.2. Environmental precaution	Avoid inhalation of vapours. Wear protective clothing, gloves, eye and face protection. For personal protection, see Section 8.	
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Personal precautions 6.2. Environmental precaution Environmental precautions 6.3. Methods and material for	Avoid inhalation of vapours. Wear protective clothing, gloves, eye and face protection. For personal protection, see Section 8. Spillages or uncontrolled discharges into watercourses must be reported immediately to the Environmental Agency or other appropriate regulatory body. Containment and 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.	
Personal precautions 6.2. Environmental precaution Environmental precautions 6.3. Methods and material for Methods for cleaning up	Avoid inhalation of vapours. Wear protective clothing, gloves, eye and face protection. For personal protection, see Section 8. Spillages or uncontrolled discharges into watercourses must be reported immediately to the Environmental Agency or other appropriate regulatory body. Containment and 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.	
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Personal precautions 6.2. Environmental precaution Environmental precautions 6.3. Methods and material for Methods for cleaning up 6.4. Reference to other section Reference to other sections SECTION 7: Handling and sto	Avoid inhalation of vapours. Wear protective clothing, gloves, eye and face protection. For personal protection, see Section 8. S Spillages or uncontrolled discharges into watercourses must be reported immediately to the Environmental Agency or other appropriate regulatory body. Containment and 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. S For personal protection, see Section 8. Fage	
Personal precautions 6.2. Environmental precaution Environmental precautions 6.3. Methods and material for Methods for cleaning up 6.4. Reference to other section Reference to other sections SECTION 7: Handling and sto 7.1. Precautions for safe hand Usage precautions	Avoid inhalation of vapours. Wear protective clothing, gloves, eye and face protection. For personal protection, see Section 8. S Spillages or uncontrolled discharges into watercourses must be reported immediately to the Environmental Agency or other appropriate regulatory body. containment and 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. S For personal protection, see Section 8. rage ling Avoid inhalation of vapours. Wear protective clothing, gloves, eye and face protection. DO	
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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

Long-term exposure limit (8-hour TWA): WEL 1 ppm 2 mg/m^3 gas and aerosol mists Short-term exposure limit (15-minute): WEL 5 ppm 8 mg/m^3 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 a
рН	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	1.100 @ 20°C
Solubility(ies)	Soluble in water.
9.2. Other information	
Other information	None.
SECTION 10: Stability and rea	activity

10.1. Reactivity

Reactivity	Reacts with alkalis and generates heat.
10.2. Chemical stability	
Stability	No particular stability concerns.
10.3. Possibility of hazardous	
Possibility of hazardous reactions	See sections 10.1,10.4 & 10.5
10.4. Conditions to avoid	
Conditions to avoid	There are no known conditions that are likely to result in a hazardous situation.
10.5. Incompatible materials	
Materials to avoid	Strong alkalis. Chlorine releasing materials will liberate toxic chlorine gas.
10.6. Hazardous decomposition	on products
Hazardous decomposition products	No known hazardous decomposition products.
SECTION 11: Toxicological in	formation
11.1. Information on toxicolog	ical 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 Infor	
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SECTION 12: Ecological Infor Ecotoxicity <u>12.1. Toxicity</u> Toxicity <u>12.2. Persistence and degrad</u>	The product may affect the acidity (pH) of water which may have hazardous effects on aquatic organisms. 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.
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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

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	П
IMDG packing group	П
ICAO packing group	П
14.5. Environmental hazards	3

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 Not relevant. for a packaged product. Annex II of MARPOL 73/78 and the IBC Code

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.

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-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.
Classification abbreviations and acronyms	Acute Tox. = Acute toxicity Eye Dam. = Serious eye damage Eye Irrit. = Eye irritation Met. Corr. = Corrosive to metals Skin Corr. = Skin corrosion Skin Irrit. = Skin irritation STOT SE = Specific target organ toxicity-single exposure
Key literature references and sources for data	Material Safety Data Sheet, Miscellaneous manufacturers. CLP Class - Table 3.1 List of harmonised classification and labeling of hazardous substances. ECHA - C&L Inventory database.
Classification procedures according to Regulation (EC) 1272/2008	Calculation Method.
Revision comments	Safety Data Sheet amended in accordance with REACH Commission Regulation (EU) No 2015/830 amendment. (Changes to Sections 2,3,15&16)
Revision date	01/08/2017
Revision	6
SDS status	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.
Hazard statements in full	 H290 May be corrosive to metals. H302 Harmful if swallowed. H314 Causes severe skin burns and eye damage. H315 Causes skin irritation. H318 Causes serious eye damage. H335 May cause respiratory irritation.