



SAFETY DATA SHEET

VANOSOLVE

1 IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY/UNDERTAKING

PRODUCT NAME VANOSOLVE
PRODUCT NO. C012
INTERNAL ID P.102
APPLICATION Heavy Duty, Acidic Descaling Cleaner
SUPPLIER Evans Vanodine International
 Brierley Road
 Walton Summit
 Preston. PR5 8AH
 01772 322200
 01772 626000

2 COMPOSITION/INFORMATION ON INGREDIENTS

Name	EC No.	CAS-No.	Content	Classification
HYDROCHLORIC ACID ...%	231-595-7	7647-01-0	10-20%	C;R34 Xi;R37
HYDROGEN CHLORIDE	231-595-7	7647-01-0	0-1%	T;R23 C;R35

The Full Text for all R-Phrases are Displayed in Section 16

3 HAZARDS IDENTIFICATION

Irritating to eyes, respiratory system and skin.

CLASSIFICATION Xi;R36/37/38.

4 FIRST-AID MEASURES

INHALATION

Move the exposed person to fresh air at once. Get medical attention if any discomfort continues.

INGESTION

DO NOT INDUCE VOMITING! Drink a few glasses of water or milk. Get medical attention.

SKIN CONTACT

Wash skin thoroughly with soap and water. Get medical attention if irritation persists after washing.

EYE CONTACT

Promptly wash eyes with plenty of water while lifting the eye lids. Continue to rinse for at least 15 minutes. Get medical attention if any discomfort continues.

5 FIRE-FIGHTING MEASURES

EXTINGUISHING MEDIA

This product is not flammable. Use fire-extinguishing media appropriate for surrounding materials.

SPECIFIC HAZARDS

If involved in fire, may emit noxious fumes.

PROTECTIVE MEASURES IN FIRE

Protective clothing and respiratory protection should be worn when tackling fires involving this product.

6 ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS

Avoid contact with eyes. Avoid inhaling vapour. Avoid contact with skin.

ENVIRONMENTAL PRECAUTIONS

Large spillages or uncontrolled discharges into rivers or streams must be reported to The Environment Agency or other regulatory body.

SPILL CLEAN UP METHODS

Small quantities may be flushed to drains with plenty of water. Large Spillages Absorb in vermiculite, dry sand or earth and place into containers. Send for disposal as special waste.

VANOSOLVE

7 HANDLING AND STORAGE

USAGE PRECAUTIONS

Avoid contact with skin and eyes. Avoid inhalation of vapours. DO NOT mix with other chemicals.

STORAGE PRECAUTIONS

Store at moderate temperatures in dry, well ventilated area. Keep in original container. Store away from Oxidising material.

8 EXPOSURE CONTROLS/PERSONAL PROTECTION

Name	Std	LT - ppm	LT - mg/m3	ST - ppm	ST - mg/m3
HYDROGEN CHLORIDE	WEL	1 ppm	2 mg/m3	5 ppm	8 mg/m3

INGREDIENT COMMENTS

WEL = Workplace Exposure Limits

ENGINEERING MEASURES

Must not be handled in confined space without sufficient ventilation.

RESPIRATORY EQUIPMENT

None required.

HAND PROTECTION

For prolonged or repeated skin contact the use of household rubber gloves is advisable.

EYE PROTECTION

Eye protection recommended.

OTHER PROTECTION

Wear appropriate clothing to prevent any possibility of skin contact.

9 PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE	Liquid		
COLOUR	Clear Straw		
ODOUR	Characteristic Hydrochloric acid.		
SOLUBILITY	Soluble in water		
BOILING POINT (°C)	102	MELTING POINT (°C)	-2
RELATIVE DENSITY	1.103 @ 20 °c	pH-VALUE, CONC. SOLUTION	0
FLASH POINT (°C)	Boils without flashing		

10 STABILITY AND REACTIVITY

STABILITY

No particular stability concerns.

MATERIALS TO AVOID

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

11 TOXICOLOGICAL INFORMATION

TOXICOLOGICAL INFORMATION

Refer to section 3.

Other Health Effects

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

12 ECOLOGICAL INFORMATION

ECOTOXICITY

Potentially hazardous due to the acidity of the product.

BIOACCUMULATION

Completely soluble. No bioaccumulation.

DEGRADABILITY

This product, at use dilutions, is readily broken down in biological effluent treatment plants.

13 DISPOSAL CONSIDERATIONS

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.

VANOSOLVE

14 TRANSPORT INFORMATION



PROPER SHIPPING NAME	HYDROCHLORIC ACID 19% SOLUTION		
UN NO. ROAD	1789	ADR CLASS	Class 8: Corrosive substances.
ADR PACK GROUP	II	RID CLASS NO.	Class 8: Corrosive substances.
RID PACK GROUP	II	UN NO. SEA	1789
IMDG CLASS	Class 8: Corrosive substances.	IMDG PACK GR.	II
MARINE POLLUTANT	No.	UN NO. AIR	1789
ICAO CLASS	Class 8: Corrosive substances.	AIR PACK GR.	II

15 REGULATORY INFORMATION

LABELLING



Irritant

RISK PHRASES

R36/37/38 Irritating to eyes, respiratory system and skin.

SAFETY PHRASES

S2 Keep out of the reach of children
 S24/25 Avoid contact with skin and eyes.
 S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
 S46 If swallowed, seek medical advice immediately and show this container or label.
 S50A Do not mix with other chemicals especially chlorine releasing bleaches as toxic gas will be evolved.

ENVIRONMENTAL LISTING

Hazardous Waste (England and Wales) Regulations.

EU DIRECTIVES

System of specific information relating to Dangerous Preparations. 2001/58/EEC. As amended by Directive 93/112/EC and 2001/58/EC.

STATUTORY INSTRUMENTS

Chemicals (Hazard Information and Packaging) Regulations. 2005

APPROVED CODE OF PRACTICE

The compilation of safety Data Sheets L130.

GUIDANCE NOTES

Workplace Exposure Limits EH40. As amended in 2005. Approved guide to the Classification and Labelling of Substances and Preparations Dangerous for Supply. L100

16 OTHER INFORMATION

INFORMATION SOURCES

Approved Supply List - HSC. Material Safety Data Sheet, Misc. manufacturers.

REVISION COMMENTS

Change due to CHIP 3.1 (2005) OES or MEL replaced by WEL in section 8.

REVISION DATE	01/11/05
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REV. NO./REPL. SDS	Issue 2
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GENERATED

VANOSOLVE

RISK PHRASES IN FULL

R23	Toxic by inhalation.
R34	Causes burns.
R35	Causes severe burns.
R37	Irritating to respiratory system.