

SAFETY DATA SHEET VANORINSE

SECTION 1: Identification of the substance/mixture and of the company/undertaking	
1.1. Product identifier	
Product name	VANORINSE
Product number	R066 EV
Internal identification	Livestock
1.2. Relevant identified uses of	of the substance or mixture and uses advised against
Identified uses	Alkaline & Chlorine based Liquid Cleaner for milk pipelines and parlours.
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	mber
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 identific	cation
2.1. Classification of the subs	tance or mixture
Classification (EC 1272/2008)	
Physical hazards	Not Classified
Health hazards	Skin Corr. 1A - H314 Eye Dam. 1 - H318
Environmental hazards	Aquatic Acute 1 - H400 Aquatic Chronic 2 - H411
2.2. Label elements	
Pictogram	
Signal word	Danger
Hazard statements	H314 Causes severe skin burns and eye damage.
	H400 Very toxic to aquatic life.
	H411 Toxic to aquatic life with long lasting effects.

Precautionary statements	 P102 Keep out of reach of children. P260 Do not breathe mist. P280 Wear protective gloves/ protective clothing/ eye protection/ face protection. P235+P410 Keep cool. Protect from sunlight. P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower. P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P315 Get immediate medical advice/ attention. P501 Dispose of contents/ container in accordance with local regulations.
Supplemental label information	EUH031 Contact with acids liberates toxic gas.
Contains	SODIUM HYDROXIDE, SODIUM HYPOCHLORITE SOLUTION, % CI ACTIVE
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

SODIUM HYDROXIDE		10-15%
CAS number: 1310-73-2	EC number: 215-185-5	REACH registration number: 01- 2119457892-27-xxxx
Spec Conc Limits :- Skin Corr. 1A (H Irrit. 2 (H319) >=0.5% <2%	314) >= 5 %, Skin Corr. 1B (H314) >	▶=2% <5 %, Skin Irrit. 2 (H315) >=0.5%<2%, Eye
Classification Met. Corr. 1 - H290 Skin Corr. 1A - H314 Eye Dam. 1 - H318		
SODIUM HYPOCHLORITE SOLUTIO	ON, % CI ACTIVE	3-5%
CAS number: 7681-52-9	EC number: 231-668-3	
M factor (Acute) = 10	M factor (Chronic) = 1	
Spec Conc Limits :- EUH031: ≥ 5%		
Classification Met. Corr. 1 - H290 Skin Corr. 1B - H314 Eye Dam. 1 - H318 Aquatic Acute 1 - H400		
Aquatic Chronic 1 - H410		

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	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.
Ingestion	Do not induce vomiting. Rinse mouth thoroughly with water. Give plenty of water to drink. Get medical attention immediately.
Skin contact	Wash with plenty of water. Get medical attention promptly if symptoms occur after washing.
Eye contact	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
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 chemical burns in mouth and throat.
Skin contact	Burning pain and severe corrosive skin damage. May cause serious chemical burns to the skin.
Eye contact	Severe irritation, burning and tearing. Prolonged contact causes serious eye and tissue damage.
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 fro	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, pro	tective equipment and emergency procedures
Personal precautions	Wear protective clothing, gloves, eye and face protection. For personal protection, see Section 8.
6.2. Environmental precaution	<u>8</u>
Environmental precautions	This product is dangerous for the environment: 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.

Reference to other sections	For personal protection, see Section 6.
SECTION 7: Handling and s	torage
7.1. Precautions for safe har	ndling
Usage precautions	Wear protective clothing, gloves, eye and face protection.
7.2. Conditions for safe stora	age, including any incompatibilities
Storage precautions	Keep only in the original container in a cool, well-ventilated place. Protect from light. Store away from the following materials: Acids.
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 Contr	rols/personal protection
8.1. Control parameters Occupational exposure limits SODIUM HYDROXIDE Short-term exposure limit (15 WEL = Workplace Exposure	- 5-minute): WEL 2 mg/m³
8.2. Exposure controls Protective equipment	
Appropriate engineering controls	Not relevant.
Eye/face protection	The following protection should be worn: Chemical splash goggles or face shield.
Hand protection	Wear protective gloves. Polyvinyl chloride (PVC).
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 phy	vsical and chemical properties
Appearance	Liquid.
Colour	Clear. Light (or pale). Yellow.
Odour	Faint Characteristic Hypochlorite
рН	pH (diluted solution): 11.50 @ 125ml per 40 Litres

рН	pH (diluted solution): 11.50 @ 125ml per 40
Melting point	0°C
Initial boiling point and range	100°C @ 760 mm Hg
Flash point	Boils without flashing.
Relative density	1.230 @ 20°C

Solubility(ies)	Soluble in water.
9.2. Other information	
Other information	None.
SECTION 10: Stability and rea	
-	acuvity
10.1. Reactivity	
Reactivity	Generates toxic gas in contact with acid. Reactions with the following materials may generate heat: Strong acids.
10.2. Chemical stability	
Stability	Inadequately vented containers may become pressurised.
10.3. Possibility of hazardous	reactions
Possibility of hazardous reactions	See sections 10.1,10.4 & 10.5
10.4. Conditions to avoid	
Conditions to avoid	Avoid exposure to high temperatures or direct sunlight.
10.5. Incompatible materials	
Materials to avoid	Strong acids. Aluminium, Tin, Zinc and their alloys.
10.6. Hazardous decomposition	on products
Hazardous decomposition products	Toxic chlorine gas can be released if heated.
SECTION 11: Toxicological in	formation
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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 conside	erations
13.1. Waste treatment method	<u>s</u>
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 inform	nation
14.1. UN number	
UN No. (ADR/RID)	1719
UN No. (IMDG)	1719
UN No. (ICAO)	1719
14.2. UN proper shipping name	8
Proper shipping name (ADR/RID)	- CAUSTIC ALKALI LIQUID, N.O.S. (sodium hydroxide solution & hypochlorite solution)
Proper shipping name (IMDG)	CAUSTIC ALKALI LIQUID, N.O.S. (sodium hydroxide solution & hypochlorite solution)
Proper shipping name (ICAO)	CAUSTIC ALKALI LIQUID, N.O.S. (sodium hydroxide solution & hypochlorite solution)
14.3. Transport hazard class(e	<u>s)</u>
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 su	bstance/marine pollutant

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 applicable. 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

SECTION 16: Other information

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

Abbreviations and acronyms PBT: Persistent, Bioaccumulative and Toxic substance. used in the safety data sheet 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 Aquatic Acute = Hazardous to the aquatic environment (acute) and acronyms Aquatic Chronic = Hazardous to the aquatic environment (chronic) Eye Dam. = Serious eye damage Eve Irrit. = Eve irritation Met. Corr. = Corrosive to metals Skin Corr. = Skin corrosion Skin Irrit. = Skin irritation Key literature references and Material Safety Data Sheet, Miscellaneous manufacturers. CLP Class - Table 3.1 List of sources for data harmonised classification and labeling of hazardous substances. ECHA - C&L Inventory database. Classification procedures Calculation Method. according to Regulation (EC) 1272/2008 **Revision comments** Addition of Environmental Statement(s) due to change in M-Factor of a Raw Material. & Safety Data Sheet amended in accordance with REACH Commission Regulation (EU) No 2015/830 amendment. (Changes to Sections 2,3,15&16) 02/05/2018 **Revision date**

Revision	9
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. H314 Causes severe skin burns and eye damage. H318 Causes serious eye damage. H400 Very toxic to aquatic life. H410 Very toxic to aquatic life with long lasting effects. H411 Toxic to aquatic life with long lasting effects.