

SAFETY DATA SHEET ROBO ACID

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

1.1. Product identifier

Product name ROBO ACID

Product number R101 EV

Internal identification Livestock

UFI: 5NM-37G5-CE60-5W69

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

Identified uses Acid Cleaner for the Descaling of Robotic Milking Equipment.

1.3. Details of the supplier of the safety data sheet

Supplier: UK Supplier: EU Supplier:

Evans Vanodine International plc Evans Vanodine Europe
Brierley Road, 6-9 Trinity Street, Dublin 2.

Walton Summit, D02 EY47.

Preston. UK. PR5 8AH Republic of Ireland.

Tel: 01772 322 200

e-mail: productcompliance@evansvanodine.co.uk

1.4. Emergency telephone number

Emergency telephone New Safety Data Sheets - 01772 322 200 - Mon to Thur. 8.30am to 4.30pm - Fri 8.30am to

1.30pm (Also available 24/7 from our website www.evansvanodine.co.uk) For Technical Advice about this SDS - 01772 318 818 - Mon to Thur 8.30am to 4.45pm - Fri 8.30am to

1.30pm

National emergency telephone For Health Care Professionals only -

number 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). .

For use in Malta: Emergency services (Ambulance, Fire and Rescue, Police): 112

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification (EC 1272/2008)

Physical hazards Not Classified

Health hazards Acute Tox. 4 - H302 Skin Corr. 1B - H314 Eye Dam. 1 - H318

Environmental hazards Not Classified

2.2. Label elements

Hazard pictograms





ROBO ACID

Signal word Danger

Hazard statements H302 Harmful if swallowed.

H314 Causes severe skin burns and eye damage.

Precautionary statements P102 Keep out of reach of children.

P260 Do not breathe mist.

P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

P270 Do not eat, drink or smoke when using this product.

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 or 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.

Contains PHOSPHORIC 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

PHOSPHORIC ACID 30-60%

Spec Conc Limits :- Skin Corr. 1B (H314) ≥ 25%, Skin Irrit. 2 (H315) >10% <25%, Eye Irrit. 2 (H319) >10%

Classification

Acute Tox. 4 - H302 Skin Corr. 1B - H314 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 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.

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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 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 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 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

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8.1. Control parameters

Occupational exposure limits

PHOSPHORIC ACID

Long-term exposure limit (8-hour TWA): WEL 1 mg/m³ Short-term exposure limit (15-minute): WEL 2 mg/m³ WEL = Workplace Exposure Limit.

8.2. Exposure controls

Protective equipment





Appropriate engineering

controls

Not applicable.

Eye/face protection The following protection should be worn: Chemical splash goggles or face shield.

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

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. Colourless.

Odour Faint

pH pH (concentrated solution): 0.15

Melting point -4°C

Initial boiling point and range 105°C @ 760 mm Hg

Flash point Boils without flashing.

Flammability (solid, gas) Not applicable.

Upper/lower flammability or

explosive limits

Relative density

Not applicable.

1.200 @ 20°C

Vapour pressure Not applicable.

Vapour density Not applicable.

Soluble in water.

Partition coefficient Not applicable.

Auto-ignition temperature Not applicable.

Decomposition Temperature Not applicable.

9.2. Other information

Other information None.

SECTION 10: Stability and reactivity

ROBO ACID

10.1. Reactivity

Reactivity Reacts with alkalis and generates heat.

10.2. Chemical stability

Stability No particular stability concerns.

10.3. Possibility of hazardous reactions

Possibility of hazardous

See sections 10.1,10.4 & 10.5

reactions

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 products

Hazardous decomposition

No known hazardous decomposition products.

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.

Acute toxicity - oral

ATE oral (mg/kg) 1,666.67

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.

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. Other adverse effects

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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 as special

waste. Rinse out empty container with water and consign to normal waste.

SECTION 14: Transport information

14.1. UN number

UN No. (ADR/RID) 3264

UN No. (IMDG) 3264

UN No. (ICAO) 3264

14.2. UN proper shipping name

Proper shipping name

CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (phosphoric acid solution)

(ADR/RID)

Proper shipping name (IMDG) CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (phosphoric acid solution)

Proper shipping name (ICAO) CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (phosphoric acid 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

ICAO packing group

14.5. Environmental hazards

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

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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 EU Regulation: "REACH Commission

> Regulation (EU) No 2015/830 (which amends Regulation (EC) No 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.".

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.".

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: 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

Eye Dam. = Serious eye damage

Eye Irrit. = Eye irritation Skin Corr. = Skin corrosion Skin Irrit. = Skin irritation

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 according to Regulation (EC)

1272/2008

Calculation Method.

Revision comments New product. Revision date 25/11/2021

Revision 1

ROBO ACID

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 H302 Harmful if swallowed.

H314 Causes severe skin burns and eye damage.

H318 Causes serious eye damage.