



SAFETY DATA SHEET

Espro Heavy Duty Toilet Descaler

According to the REACH etc. (Amendment etc.) (EU Exit) Regulations 2020 No. 1577, as amended.

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

1.1. Product identifier

| | |
|-------------------------|----------------------------------|
| Product name | Espro Heavy Duty Toilet Descaler |
| Product number | 800-117-0084 |
| Internal identification | ES90000-750ML |
| Container size | 750 ml |
| UFI | JW6Q-R10T-DR0S-HWAY |

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

| | |
|-----------------|-----------------|
| Identified uses | Cleaning agent. |
|-----------------|-----------------|

1.3. Details of the supplier of the safety data sheet

| | |
|----------------|--|
| Supplier | Eurosafe Limited 8a Hauley Road, Dartmouth, TQ6 9AA +44 (0)1803834266 sales@eurosafe.ltd.uk |
| Contact person | For content of safety data sheet:, sales@eurosafe.ltd.uk |

1.4. Emergency telephone number

| | |
|-------------------------------------|--|
| Emergency telephone | +44 (0)1803834266 (Eurosafe) |
| National emergency telephone number | UK: In case of a medical emergency following exposure to a chemical call NHS Direct in England or Wales 0845 46 47 or NHS 24 in Scotland 08454 24 24 24 Ireland: For information or to report a poisoning incident contact The National Poisons Information Centre (01 8092166) |

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification (SI 2019 No. 720)

| | |
|-----------------------|---------------------------------------|
| Physical hazards | Not Classified |
| Health hazards | Skin Corr. 1 - H314 Eye Dam. 1 - H318 |
| Environmental hazards | Not Classified |

2.2. Label elements

Hazard pictograms



| | |
|-------------------|---|
| Signal word | Danger |
| Hazard statements | H314 Causes severe skin burns and eye damage. |

Espro Heavy Duty Toilet Descaler

| | |
|---|--|
| Precautionary statements | <p>P101 If medical advice is needed, have product container or label at hand.</p> <p>P102 Keep out of reach of children.</p> <p>P264 Wash contaminated skin thoroughly after handling.</p> <p>P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.</p> <p>P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.</p> <p>P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.</p> <p>P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.</p> <p>P310 Immediately call a POISON CENTER/ doctor.</p> <p>P501 Dispose of contents/ container in accordance with local regulations.</p> |
| Contains | CITRIC ACID ANHYDROUS, ALCOHOLS, C12-14, ETHOXYLATED |
| Supplementary precautionary statements | <p>P260 Do not breathe vapour/ spray.</p> <p>P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.</p> <p>P363 Wash contaminated clothing before reuse.</p> <p>P405 Store locked up.</p> |

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

| | |
|---|----------------------|
| CITRIC ACID ANHYDROUS | 5-10% |
| CAS number: 77-92-9 | EC number: 201-069-1 |
| Classification Eye Irrit. 2 - H319 | |
| ALCOHOLS, C12-14, ETHOXYLATED | <1% |
| CAS number: 68439-50-9 | EC number: 500-213-3 |
| Classification Acute Tox. 4 - H302 Eye Dam. 1 - H318 Aquatic Chronic 3 - H412 | |

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

| | |
|----------------------------|--|
| General information | Provide eyewash station. |
| Inhalation | Remove affected person from source of contamination. Keep affected person warm and at rest. Get medical attention immediately. |
| Ingestion | Never give anything by mouth to an unconscious person. Do not induce vomiting. Rinse mouth thoroughly with water. Get medical attention immediately. |
| Skin contact | Remove affected person from source of contamination. Remove contaminated clothing. Wash skin thoroughly with soap and water. Get medical attention promptly if symptoms occur after washing. |

Espro Heavy Duty Toilet Descaler

Eye contact Remove affected person from source of contamination. Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 15 minutes. Get medical attention immediately. Continue to rinse.

Protection of first aiders First aid personnel should wear appropriate protective equipment during any rescue.

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 May cause respiratory irritation. Coughing, chest tightness, feeling of chest pressure.

Ingestion May be harmful if swallowed and enters airways. A single exposure may cause the following adverse effects: Irritation. Sore throat. Dryness of mouth and throat.

Skin contact A single exposure may cause the following adverse effects: Redness. Irritation. Dry skin.

Eye contact The product is irritating to eyes and skin. Prolonged or repeated exposure may cause the following adverse effects: Irritation and redness, followed by blurred vision. Corneal damage. Risk of serious damage to eyes.

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. Use foam, carbon dioxide, dry powder or water fog to extinguish.

5.2. Special hazards arising from the substance or mixture

Hazardous combustion products Thermal decomposition or combustion products may include the following substances: Toxic gases or vapours. Oxides of carbon. Carbon dioxide (CO₂). Carbon monoxide (CO).

5.3. Advice for firefighters

Protective actions during firefighting Control run-off water by containing and keeping it out of sewers and watercourses.

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 as described in Section 8 of this safety data sheet.

6.2. Environmental precautions

Environmental precautions Avoid or minimise the creation of any environmental contamination.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up Do not touch or walk into spilled material. Stop leak if possible without risk. Absorb in vermiculite, dry sand or earth and place into containers. Flush contaminated area with plenty of water.

6.4. Reference to other sections

Reference to other sections For waste disposal, see Section 13. See Section 11 for additional information on health hazards. See Section 1 for emergency contact information.

Espro Heavy Duty Toilet Descaler

SECTION 7: Handling and storage

7.1. Precautions for safe handling

| | |
|---|--|
| Usage precautions | Avoid spilling. Provide adequate ventilation. Wear protective clothing as described in Section 8 of this safety data sheet. Avoid contact with skin and eyes. Do not mix with Bleach. Do not mix with other household chemical products. |
| Advice on general occupational hygiene | Good personal hygiene procedures should be implemented. Do not eat, drink or smoke when using this product. Wash promptly with soap and water if skin becomes contaminated. Take off immediately all contaminated clothing and wash it before reuse. |

7.2. Conditions for safe storage, including any incompatibilities

| | |
|----------------------------|--|
| Storage precautions | Store in tightly-closed, original container in a dry, cool and well-ventilated place. Keep only in the original container. Store away from the following materials: Oxidising materials. |
| Storage class | Corrosive storage. |

7.3. Specific end use(s)

| | |
|----------------------------|---|
| Specific end use(s) | The identified uses for this product are detailed in Section 1.2. |
|----------------------------|---|

SECTION 8: Exposure controls/Personal protection

8.1. Control parameters

CITRIC ACID ANHYDROUS (CAS: 77-92-9)

| | |
|-------------|---|
| DNEL | Available hazard data do not support the need for a DNEL to be established for other health effects. |
| PNEC | <ul style="list-style-type: none"> - Fresh water; 0.44 mg/l - marine water; 0.044 mg/l - STP; >1000 mg/l - Sediment (Freshwater); 34.6 mg/kg - Sediment (Marinewater); 3.46 mg/kg - Soil; 33.1 |

ALCOHOLS, C12-14, ETHOXYLATED (CAS: 68439-50-9)

| | |
|-------------|--|
| DNEL | Workers - Inhalation; Long term systemic effects: 294 mg/m ³ Workers - Dermal; Long term systemic effects: 2080 mg/kg/day General population - Inhalation; Long term systemic effects: 87 mg/m ³ General population - Dermal; Long term systemic effects: 1250 mg/kg/day General population - Oral; Long term systemic effects: 25 mg/kg/day |
| PNEC | <ul style="list-style-type: none"> - Fresh water; 0.0437 mg/l - Intermittent release; 0.004 mg/l - STP; 10 mg/l - Sediment (Freshwater); 31 mg/kg - Sediment (Marinewater); 31 mg/kg - Soil; 1 mg/kg |

8.2. Exposure controls

Protective equipment



Espro Heavy Duty Toilet Descaler

| | |
|---|--|
| Appropriate engineering controls | Provide adequate ventilation. Avoid inhalation of vapours. Observe any occupational exposure limits for the product or ingredients. |
| Eye/face protection | Eyewear complying with an approved standard should be worn if a risk assessment indicates eye contact is possible. The following protection should be worn: Chemical splash goggles or face shield. Personal protective equipment that provides appropriate eye and face protection should be worn. |
| Hand protection | Chemical-resistant, impervious gloves complying with an approved standard should be worn if a risk assessment indicates skin contact is possible. To protect hands from chemicals, wear gloves that are proven to be impervious to the chemical and resist degradation. It is recommended that gloves are made of the following material: Polyvinyl chloride (PVC). Rubber (natural, latex). Neoprene. |
| Other skin and body protection | Wear appropriate clothing to prevent any possibility of skin contact. |
| Hygiene measures | Provide eyewash station and safety shower. Do not smoke in work area. Wash at the end of each work shift and before eating, smoking and using the toilet. Promptly remove any clothing that becomes contaminated. Wash promptly with soap and water if skin becomes contaminated. Use appropriate skin cream to prevent drying of skin. When using do not eat, drink or smoke. |
| Respiratory protection | No specific recommendations. Respiratory protection may be required if excessive airborne contamination occurs. |
| Environmental exposure controls | Avoid releasing into the environment. |

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

| | |
|---|--|
| Appearance | Liquid. |
| Colour | Green. |
| Odour | Odourless. |
| Odour threshold | No information available. |
| pH | pH (concentrated solution): 1.5-3.0 |
| Melting point | No information available. |
| Initial boiling point and range | No information available. |
| Flash point | No information available. |
| Evaporation rate | No information available. |
| Evaporation factor | No information available. |
| Flammability (solid, gas) | Not flammable |
| Upper/lower flammability or explosive limits | The product is not flammable or explosive. |
| Other flammability | Not applicable. |
| Vapour pressure | No information available. |
| Vapour density | No information available. |
| Relative density | 1.010 @ 20°C |

Espro Heavy Duty Toilet Descaler

| | |
|---|---|
| Bulk density | Not applicable. |
| Solubility(ies) | Soluble in water. |
| Partition coefficient | No information available. |
| Auto-ignition temperature | Not applicable. |
| Decomposition Temperature | No information available. |
| Viscosity | 500-1500 cP @ 20°C |
| Explosive properties | There are no chemical groups present in the product that are associated with explosive properties. |
| Explosive under the influence of a flame | Not considered to be explosive. |
| Oxidising properties | The mixture itself has not been tested but none of the ingredient substances meet the criteria for classification as oxidising. |
| Comments | Information given is applicable to the product as supplied. |

9.2. Other information

SECTION 10: Stability and reactivity

10.1. Reactivity

| | |
|-------------------|---|
| Reactivity | Under normal storage conditions this product is stable. Reactions with the following materials may generate heat: Alkalis. Alkali metals. Mixing with hypochlorite bleach based products will produce Toxic Chlorine gas. |
|-------------------|---|

10.2. Chemical stability

| | |
|------------------|--|
| Stability | Stable at normal ambient temperatures. |
|------------------|--|

10.3. Possibility of hazardous reactions

| | |
|---|---|
| Possibility of hazardous reactions | Reacts with alkalis and generates heat. Reacts with chlorine/hypochlorite, sulphites, nitrites to produce toxic or corrosive gases. Mixing with Hypochlorite Bleach based products will produce toxic Chlorine gas. |
|---|---|

10.4. Conditions to avoid

| | |
|----------------------------|---|
| Conditions to avoid | Avoid exposure to high temperatures or direct sunlight. Avoid contact with Bleach and Alkaline materials. |
|----------------------------|---|

10.5. Incompatible materials

| | |
|---------------------------|---|
| Materials to avoid | Alkalis. Acid-reactive materials. Avoid contact with hypochlorite bleach products. Do not mix with other household chemical products. |
|---------------------------|---|

10.6. Hazardous decomposition products

| | |
|---|--|
| Hazardous decomposition products | Under normal conditions of storage and use, hazardous decomposition products should not be produced. |
|---|--|

SECTION 11: Toxicological information

11.1. Information on toxicological effects

| | |
|------------------------------|---|
| Toxicological effects | Information given is based on data of the components and of similar products. |
|------------------------------|---|

Acute toxicity - oral

| | |
|-------------------------------------|--|
| Notes (oral LD₅₀) | Based on available data the classification criteria are not met. |
|-------------------------------------|--|

Acute toxicity - dermal

Espro Heavy Duty Toilet Descaler

| | |
|--|---|
| Notes (dermal LD₅₀) | Based on available data the classification criteria are not met. |
| <u>Acute toxicity - inhalation</u> | |
| Notes (inhalation LC₅₀) | Based on available data the classification criteria are not met. |
| <u>Skin corrosion/irritation</u> | |
| Skin corrosion/irritation | May cause serious chemical burns to the skin. |
| Extreme pH | ≤ 2 |
| <u>Serious eye damage/irritation</u> | |
| Serious eye damage/irritation | Corrosivity to eyes is assumed. |
| <u>Respiratory sensitisation</u> | |
| Respiratory sensitisation | Not sensitising. Based on available data the classification criteria are not met. |
| <u>Skin sensitisation</u> | |
| Skin sensitisation | Not classified. Based on available data the classification criteria are not met. |
| <u>Germ cell mutagenicity</u> | |
| Genotoxicity - in vitro | Does not contain any substances known to be mutagenic. |
| <u>Carcinogenicity</u> | |
| Carcinogenicity | Does not contain any substances known to be carcinogenic. |
| <u>Reproductive toxicity</u> | |
| Reproductive toxicity - fertility | Does not contain any substances known to be toxic to reproduction. |
| <u>Specific target organ toxicity - single exposure</u> | |
| STOT - single exposure | Not classified as a specific target organ toxicant after a single exposure. |
| <u>Specific target organ toxicity - repeated exposure</u> | |
| STOT - repeated exposure | Not classified as a specific target organ toxicant after repeated exposure. |
| <u>Inhalation</u> | |
| Inhalation | This is unlikely to occur but symptoms similar to those of ingestion may develop. |
| <u>Ingestion</u> | |
| Ingestion | Swallowing concentrated chemical may cause severe internal injury. May cause burns in mucous membranes, throat, oesophagus and stomach. |
| <u>Skin contact</u> | |
| Skin contact | Prolonged or repeated exposure may cause the following adverse effects: Irritation. Redness. Dry skin. Chemical burns. |
| <u>Eye contact</u> | |
| Eye contact | Severe irritation, burning and tearing. Prolonged contact may cause burns. |

11.2 Information on other hazards

11.2.1. Endocrine disrupting properties This product is not classified as, nor contains substances classed as having endocrine disrupting characteristics at levels >0.1% by weight (according to Regulation (EU) 2018/605).

11.2.2 Other information

Toxicological information on ingredients.

CITRIC ACID ANHYDROUS

Acute toxicity - oral

Acute toxicity oral (LD₅₀ mg/kg) 5,040.0

Espro Heavy Duty Toilet Descaler

Species Mouse

ATE oral (mg/kg) 5,040.0

Acute toxicity - dermal

Acute toxicity dermal (LD₅₀ mg/kg) 2,001.0

Species Rat

ATE dermal (mg/kg) 2,001.0

SECTION 12: Ecological information

Ecotoxicity There are no data on the ecotoxicity of this product. Not regarded as dangerous for the environment.

12.1. Toxicity

Toxicity Not considered toxic to fish.

Ecological information on ingredients.

CITRIC ACID ANHYDROUS

Acute aquatic toxicity

Acute toxicity - fish LC₅₀, 48 hours: 440 and 760 mg/l, Leuciscus idus (Golden orfe)

Acute toxicity - aquatic invertebrates EC₅₀, 24 hours: 1535 mg/l, Daphnia magna

12.2. Persistence and degradability

Persistence and degradability There are no data on the degradability of this product. The surfactant(s) contained in this product complies(comply) with the biodegradability criteria as laid down in The Detergents Regulations (as amended).

Ecological information on ingredients.

CITRIC ACID ANHYDROUS

Persistence and degradability The product is biodegradable.

12.3. Bioaccumulative potential

Bioaccumulative potential No data available on bioaccumulation.

Partition coefficient No information available.

Ecological information on ingredients.

CITRIC ACID ANHYDROUS

Bioaccumulative potential The product is not bioaccumulating.

Partition coefficient log Pow: -1.72 REACH dossier information.

12.4. Mobility in soil

Mobility The product is water-soluble and may spread in water systems.

Ecological information on ingredients.

Espro Heavy Duty Toilet Descaler

CITRIC ACID ANHYDROUS

Mobility

Soluble in water.

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. Endocrine disrupting properties

Endocrine disrupting properties

This product is not classified as, nor contains substances classed as having endocrine disrupting characteristics at levels >0.1% by weight (according to Regulation (EU) 2018/605).

Ecological information on ingredients.

CITRIC ACID ANHYDROUS

Results of PBT and vPvB assessment

This substance is not classified as PBT or vPvB according to current UK criteria.

12.6. Other adverse effects

Other adverse effects

Not known.

Ecological information on ingredients.

CITRIC ACID ANHYDROUS

Other adverse effects

Not available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal methods

The generation of waste should be minimised or avoided wherever possible. Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority.

SECTION 14: Transport information

14.1. UN number

UN No. (ADR/RID) 1760

UN No. (IMDG) 1760

UN No. (ICAO) 1760

UN No. (ADN) 1760

14.2. UN proper shipping name

Proper shipping name (ADR/RID) CORROSIVE LIQUID, N.O.S. (User to define)

Proper shipping name (IMDG) CORROSIVE LIQUID, N.O.S. (User to define)

Proper shipping name (ICAO) CORROSIVE LIQUID, N.O.S. (User to define)

Proper shipping name (ADN) CORROSIVE LIQUID, N.O.S. (User to define)

14.3. Transport hazard class(es)

ADR/RID class 8

Espro Heavy Duty Toilet Descaler

| | |
|-----------------------------|----|
| ADR/RID classification code | C9 |
| ADR/RID label | 8 |
| IMDG class | 8 |
| ICAO class/division | 8 |
| ADN class | 8 |

Transport labels



14.4. Packing group

| | |
|-----------------------|----|
| ADR/RID packing group | II |
| IMDG packing group | II |
| ICAO packing group | II |
| ADN packing group | II |

14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant
No.

14.6. Special precautions for user

| | |
|--|----------|
| EmS | F-A, S-B |
| ADR transport category | 2 |
| Emergency Action Code | 2X |
| Hazard Identification Number (ADR/RID) | 80 |
| Tunnel restriction code | (E) |

14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not applicable.

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Espro Heavy Duty Toilet Descaler

National regulations

The Control of Substances Hazardous to Health Regulations 2002 (SI 2002 No. 2677) (as amended).
 Control of Pollution (Special Waste) Regulations 1980 (as amended).
 The Carriage of Dangerous Goods and Use of Transportable Pressure Equipment Regulations 2009 (SI 2009 No. 1348) (as amended) ["CDG 2009"].
 EH40/2005 Workplace exposure limits.
 The Hazardous Waste Regulations 2005.
 The REACH etc. (Amendment etc.) (EU Exit) Regulations 2020 (SI 2020 No. 1577) (as amended).
 The Product Safety and Metrology etc. (Amendment etc.) (EU Exit) Regulations 2019 (SI 2019 No. 696) (as amended).
 The Detergents Regulations 2010 (SI 2010 No. 740) (as amended). The Detergents (Amendment) (EU Exit) Regulations 2019 (SI 2019 No. 612) (as amended). The Detergents (Safeguarding) (Amendment) (EU Exit) Regulations 2019 (SI 2019 No. 671) (as amended).
 The Chemicals (Health and Safety) and Genetically Modified Organisms (Contained Use) (Amendment etc.) (EU Exit) Regulations 2019 (as amended).
 The Carriage of Dangerous Goods and Use of Transportable Pressure Equipment Regulations 2009 (SI 2009 No. 1348) (as amended) ["CDG 2009"].

EU legislation

Regulation (EU) No 453/2010 of 20 May 2010 amending Regulation (EC) 1907/2006.
 Waste Material Code 91/689/EEC

European Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures (as amended)
 European Regulation (EC) No 1907/2006 - Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (as amended).
 European Regulation (EC) No 648/2004 on detergents (as amended).
 Regulation (EU) No 453/2010 of 20 May 2010 amending Regulation (EC) 1907/2006.

Guidance

Technical Guidance WM2: Hazardous Waste.
 COSHH Essentials.
 ECHA Guidance on the Application of the CLP Criteria.
 ECHA Guidance on the compilation of safety data sheets.
 Workplace Exposure Limits EH40.

15.2. Chemical safety assessment

Currently we do not have information from our suppliers about this.

SECTION 16: Other information

Abbreviations and acronyms used in the safety data sheet

EWC European Waste Catalogue
 STOT RE = Specific target organ toxicity-repeated exposure
 PBT: Persistent, Bioaccumulative and Toxic substance.
 vPvB: Very Persistent and Very Bioaccumulative.
 PNEC: Predicted No Effect Concentration.
 DNEL: Derived No Effect Level.

General information

Only trained personnel should use this material.

Revision comments

NOTE: Lines within the margin indicate significant changes from the previous revision. Note: Finished product SDS take their revision history from the parent bulk liquid SDS. The revision data will show that of the parent liquid. Review with no changes to classification

Revision date

27/01/2025

Espro Heavy Duty Toilet Descaler

| | |
|----------------------------------|--|
| Revision | 1 |
| SDS number | 23693 |
| Hazard statements in full | H302 Harmful if swallowed. H314 Causes severe skin burns and eye damage. H318 Causes serious eye damage. H319 Causes serious eye irritation. H412 Harmful to aquatic life with long lasting effects. |