DESCALE

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

1.1 - Product identifier

Trade name/designation

Chemical name	DESCALE
Product-type	Mixture
Product code	A178 EV - Professional Hygiene
UFI:	5NM3-7G5C-E605-W69R

SDS also conforms with UK Regulation: "SI 2020 No. 1577 - The REACH etc. (Amendment etc.) (EU Exit) Regulations 2020".

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

Relevant identified uses

- Acidic Liquid for Descaling Dish and Glass Washing Machines.
- Suitable for use in the food Industry.

1.3 - Details of the supplier of the safety data sheet

UK Supplier: Evans Vanodine International plc,
Brierley Road, Walton Summit, Preston, UK. PR5 8AH

Telephone : +44 (0) 1772 322 200
Website www.evansvanodine.co.uk
Evans: productcompliance@evansvanodine.co.uk

Distributor

EU Supplier: Evans Vanodine Europe (FR), 3 Boulevard de Belfort, 1st Floor, Lille, 59000, France.
Tel: +33 (0)3 76 04 21 87

1.4 - Emergency telephone number

- For Health Care Professionals only:
For use in the Republic of Ireland: To report a poisoning incident contact The National Poisons Information Centre, Beaumont Hospital, Dublin (01-8092166 – 8am to 10pm every day).
For use in Malta: Emergency services (Ambulance, Fire and Rescue, Police) : 112.
For use in UK: Contact the National Poisons Information Service for further advice. United Kingdom

New Safety Data Sheets - +44 (0) 1772 322 200 - Mon to Thu 8:30am to 4:30pm and Fri 8:30am to 1:30pm.
(Also available 24 hours a day on our website www.evansvanodine.co.uk)
For technical advice on this Safety Data Sheet - +44 (0) 1772 318 818 - Mon to Thu 8:00am to 5:30pm.

SECTION 2: Hazards identification

2.1 - Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 [CLP]

Acute Tox. 4 Oral	Acute toxicity (oral) - Category 4
Skin Corr. 1B	Skin corrosion, Category 1B
Eye Dam. 1	Serious eye damage, Category 1

2.2 - Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Contains: phosphoric acid

DESCALE

Signal word : Danger

Hazard pictograms



Hazard statements

H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.

Precautionary statements

P260	Do not breathe mist.
P270	Do not eat, drink or smoke when using this product.
P280	Wear eye protection/face protection/protective clothing/protective gloves.
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 container/contents in accordance with local regulation.
P102	Keep out of reach of children.

EUH-phrases : None

2.3 - Other hazards

PBT substances

vPvB substances

- This product does not contain any substances classified as PBT or vPvB.
- This product does not contain a substance that has endocrine disrupting properties with respect to humans as no components meets the criteria.

Other hazards which do not result in classification - Keep away from other chemicals especially chlorine releasing bleaches as toxic gas will be evolved.

SECTION 3: Composition / information on ingredients

3.1 - Substances

Not applicable

3.2 - Mixtures

Chemical name	No.	%	Class(es)	Information on the substance
phosphoric acid	CAS No. : 7664-38-2 Index No. : 015-011-00-6 EC No. : 231-633-2 REACH No. : 01-2119485924-24-xxxx	25 - < 30	Acute Tox. 4 Oral - H302 Eye Dam. 1 - H318 Met. Corr. 1 - H290 Skin Corr. 1B - H314	Skin Corr. 1B - H314 : 25<=%<=100 Skin Irrit. 2 - H315 : 10<=%<25 Eye Irrit. 2 - H319 : 10<=%<25 Eye Dam. 1 - H318 : 25<=%<=100 (a) (b)

(a) Substance contributing to the classification

(b) Substance with exposure limite value

SECTION 4: First aid measures

4.1 - Description of first aid measures

Following 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.
Following skin contact	- Wash immediately with:Water - Get medical attention promptly if symptoms occur after washing.
After eye contact	- Rinse immediately with plenty of water. Remove any contact lenses, if present and easy to do, continue to rinse with eyelids apart. Get medical attention immediately.
After ingestion	- Do NOT induce vomiting. - Rinse mouth thoroughly with water. - Give plenty of water to drink. Get medical attention immediately.

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

Symptoms and effects - Following inhalation	- Irritation of nose, throat and airway
Symptoms and effects - Following skin contact	- Burning pain and severe corrosive skin damage. May cause serious chemical burns to the skin.
Symptoms and effects - After eye contact	- Severe eye irritation, burning and tearing. Prolonged contact causes serious eye and tissue damage.
Symptoms and effects - After ingestion	- May cause chemical burns in mouth and throat.

4.3 - Indication of any immediate medical attention and special treatment needed

- Treat symptomatically.
- General information: The severity of the symptoms described will vary dependent on the concentration and the length of exposure.

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.

Unsuitable extinguishing media	- None

5.2 - Special hazards arising from the substance or mixture

Special hazards arising from the substance or mixture	- Thermal decomposition or combustion products may include the following substances: - Irritating gases or vapours.

5.3 - Advice for firefighters

- Co-ordinate fire-fighting measures to the fire surroundings.
- Wear a self-contained breathing apparatus and chemical protective clothing.

SECTION 6: Accidental release measures

6.1 - Personal precautions, protective equipment and emergency procedures

For non-emergency personnel	- Use personal protection equipment. - See section 8.2 - Wear protective clothing, gloves, eye and face protection.

6.2 - 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 and material for cleaning up	- Small Spillages: Flush away spillage with plenty of water to drain. - 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

- Disposal: See section 13
- Personal protection equipment: see section 8
- Safe handling: See section 7

SECTION 7: Handling and storage

7.1 - Precautions for safe handling

Recommendation	- Wear personal protective clothing (see section 8).

7.2 - Conditions for safe storage, including any incompatibilities

- Keep/store only in original container.
- Keep container tightly closed in a cool, well-ventilated place.
- Store away from the following materials:
- Oxidising materials.
- (eg Hypochlorite / Bleach)
- Alkalis.

7.3 - Specific end use(s)

- See section 1.2 of the SDS.
- See Product Information Sheet and Label for detailed use of this product.

SECTION 8: Exposure controls/personal protection

8.1 - Control parameters

phosphoric acid (7664-38-2)	
IOELV TWA mg/m³ (UE)	1 mg/m³
IOELV STEL mg/m³ (UE)	2 mg/m³

8.2 - Exposure controls

Appropriate engineering controls

- Not relevant.

Individual protection measures, such as personal protective equipment

- Eye protection



- Wear protective gloves.



- (Household rubber gloves.)
- Wear appropriate clothing to prevent any possibility of skin contact.
- Respiratory protection not required.

SECTION 9: Physical and chemical properties

9.1 - Information on basic physical and chemical properties

Physical state	Liquid	Appearance	Thin liquid
Colour	colourless	Odour	Almost odourless.

Odour threshold	No data available
pH	0.15
Melting point	-4 °C
Freezing point	No data available
Boiling point	105 °C
Flash point	Not applicable
Evaporation rate	No data available
flammability	Not applicable
Lower explosion limit	Not applicable
Upper explosion limit	Not applicable
Vapour pressure	No data available
Vapour density	No data available
Relative density	No data available
Density	1.179
Solubility (Water)	Soluble

Solubility (Ethanol)	No data available
Solubility (Acetone)	No data available
Solubility (Organic solvents)	No data available
Log KOC	Not applicable Partition coefficient n-octanol/water (Log value)
Auto-ignition temperature	Not applicable
Decomposition temperature	No data available
Kinematic viscosity	No data available
Dynamic viscosity	No data available

Particle characteristics

Particle size	Not applicable
Dustiness	No data available
Specific surface area	No data available
Shape	No data available

9.2 - Other information

VOC content	0 %
Minimum ignition energy	No data available
Conductivity	No data available
Refractive index	No data available
Solids content	No data available
Surface tension	No data available
Saturation concentration	No data available

SECTION 10: Stability and reactivity

10.1 - Reactivity

- Reactions with the following materials may generate heat:
- Strong alkalis.

10.2 - Chemical stability

- The product is chemically stable under recommended conditions of storage, use and temperature.

10.3 - Possibility of hazardous reactions

- No hazardous reaction when handled and stored according to provisions.

10.4 - Conditions to avoid

- There are no known conditions that are likely to result in a hazardous situation.

10.5 - Incompatible materials

- Strong alkali.
- Chlorine releasing materials will liberate toxic Chlorine gas.

10.6 - Hazardous decomposition products

- No known hazardous decomposition products.

SECTION 11: Toxicological information

DESCALE

11.1 - Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity	- Acute toxicity (oral) - Category 4 - Harmful if swallowed.

Toxicity : Mixture

ATE oral : 1667.08 ATE dermal : - ATE Inhalation Dust/Mist : -
ATE Inhalation Vapor : - ATE Inhalation Gas : -

LD50 oral (rat)	Not applicable
LD50 dermal (rat)	Not applicable
LD50 dermal (rabbit)	Not applicable
LC50 inhalation gas (rat)	Not applicable
LC50 inhalation dusts and mists (rat)	Not applicable
LC50 inhalation vapours (rat)	Not applicable

- The classification criteria have been met.
- The evaluation was carried out according to the calculation method.
- No animal testing has been carried out for this product. Any ATE figures quoted 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.

Skin corrosion/irritation	- Skin corrosion, Category 1B - Causes severe skin burns and eye damage.
	- Causes severe burns. - The evaluation was carried out according to the calculation method.
Serious eye damage/eye irritation	- Serious eye damage, Category 1
	- Causes serious eye damage. - The evaluation was carried out according to the calculation method.
Respiratory or skin sensitisation	- Not classified
Germ cell mutagenicity	- Not classified
Carcinogenicity	- Not classified
Reproductive toxicity	- Not classified
STOT-single exposure	- Not classified
STOT-repeated exposure	- Not classified
Aspiration hazard	- Not classified

11.2 - Information on other hazards

- None known.
- 11.2.1 Endocrine disrupting properties - None known.

SECTION 12: Ecological information

12.1 - Toxicity

Toxicity : Mixture

EC50 48 hr crustacea	No data available
LC50 96 hr fish	No data available
ErC50 algae	No data available
ErC50 other aquatic plants	No data available
NOEC chronic fish	No data available
NOEC chronic crustacea	No data available
NOEC chronic algae	No data available
NOEC chronic other aquatic plants	No data available

- No Aquatic testing carried out, therefore no Aquatic Toxicity Data available 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.
- This product does not contain any ingredients that are classified for the environment, therefore product is not classified for the environment.
- Ecotoxicity: Potentially hazardous due to the acidity of the product.

12.2 - Persistence and degradability

Biochemical oxygen demand (BOD)	No data available
Chemical oxygen demand (COD)	No data available
% of biodegradation in 28 days	No data available

- Product does not contain any surfactants.
- This product, at use dilutions, is readily broken down in biological effluent treatment plants.

12.3 - Bioaccumulative potential

Bioconcentration factor (BCF)	No data available
Log KOC	Not applicable Partition coefficient n-octanol/water (Log value)

- There is no bioaccumulating substance in the product.

12.4 - Mobility in soil

- No data available.

12.5 - Results of PBT and vPvB assessment

- This product does not contain any substances classified as PBT or vPvB.
- This product does not contain a substance that has endocrine disrupting properties with respect to humans as no components meets the criteria.

12.6 - Endocrine disrupting properties

- This product does not contain any substances that are identified as having endocrine distrupting properties.

12.7 - Other adverse effects

- None

SECTION 13: Disposal considerations

13.1 - Waste treatment methods

Waste treatment 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 or ID number

UN number (ADR)	:	UN3264
UN number (RID)	:	UN3264
UN number (IMDG)	:	UN3264

14.2 - UN proper shipping name

UN proper shipping name (ADR)	:	CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (phosphoric acid)
UN proper shipping name (RID)	:	CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (phosphoric acid)
UN proper shipping name (IMDG)	:	CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (phosphoric acid)

14.3 - Transport hazard class(es)

ADR Transport hazard class(es)	:	8
ADR Classification code:	:	C1

Pictograms



8

Transport hazard class(es) (RID)	:	8

Pictograms



8

Transport hazard class(es) (IMDG)	:	8

Pictograms



8

14.4 - Packing group

Packing group	:	III
Packing group (RID)	:	III
Packing group (IMDG)	:	III

14.5 - Environmental hazards

Environmental hazards	:	No
Marine pollutant	:	No

14.6 - Special precautions for user

ADR

ADR Classification code:	:	C1
ADR Special provisions	:	274
ADR Limited quantity (LQ)	:	5L
ADR Excepted quantities	:	E1
ADR Packing instructions	:	P001 IBC03 LP01 R001
ADR Special packing provisions	:	
ADR Mixed packing provisions	:	MP19
Instructions for portable tanks and bulk containers	:	T7
Special provisions for portable tanks and bulk containers	:	TP1 TP28
ADR tank code	:	L4BN
ADR tanks special provisions	:	TU42
Vehicle for tank carriage	:	AT
ADR Transport category	:	3
ADR Tunnel restriction code	:	E
ADR Special provisions loading, unloading and handling	:	
Special provisions - Packages	:	V12
Special provisions - Bulk	:	
Special provisions - Operation	:	
ADR Hazard identification number (Kemler No.)	:	80

RID

Special provisions	:	
Limited quantity (LQ)	:	
Excepted quantities	:	

IMDG

Special provisions	:	223 274
Limited quantity (LQ)	:	5 L
Excepted quantities	:	E1
Packing instructions	:	P001 LP01
Special packing provisions	:	
IBC instruction(s)	:	IBC03
IBC provisions	:	
Instructions for portable tanks and bulk containers	:	T7
Special provisions for portable tanks and bulk containers	:	TP1 TP28
EmS codes	:	F-A, S-B
Stowage and handling	:	Category A SW2
Segregation	:	SGG1 SG36 SG49
Properties and observations	:	Causes burns to skin, eyes and mucous membranes.

14.7 - Maritime transport in bulk according to IMO instruments

- Not relevant for a packaged product.

SECTION 15: Regulatory information

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

Substances REACH candidates	None
Substances Annex XIV	None
Substances Annex XVII	None

VOC content	0 %

- Safety Data Sheet prepared in accordance with EU Regulation: "REACH Commission Regulation (EU) No 2020/878 (which amends Regulation (EC) No 2015/830, 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 Regulation: "SI 2020 No. 1577 - The REACH etc. (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." (which amends SI 2019 No.720).
- This product does not contain any surfactants.

15.2 - Chemical Safety Assessment

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

SECTION 16: Other information

SDS versions

Version	Issue date	Author	Description of the amendments
17	11/03/2026		SDS prepared on new SDS software. - No change in Product Classification.

Abbreviations and acronyms

- ADR: The Agreement concerning the International Carriage of Dangerous Goods by Road
- ATE: Acute Toxicity Estimate.
- LC50: Lethal Concentration to 50 % of a test animals.
- LOEC: Lowest Observed Effect Concentration.
- LD50: Lethal Dose to 50% of a test animals.
- LOEL: Lowest Observed Adverse Effect Level.
- DNEL: Derived no-effect level.
- EC50: Effective concentration of the substance that causes adverse effects in 50% of test animals.
- IATA: International Air Transport Association.
- IMDG: International Maritime Dangerous Goods.
- EC No: European Community number
- NOEC: No Observed Effect Concentration.
- NOEL: No observable effect level.

DESCALE

	- CAS No.: Chemical Abstracts Service number. - ICAO: International Civil Aviation Organization - PBT: Persistent, Bioaccumulative and Toxic. - PNEC: Predicted no-effect concentration. - RID: International Carriage of Dangerous Goods by Rail. - STEL: Short-term exposure limit - TWA: Time weighted average - OEL: Occupational exposure limit. - vPvB: very Persistent and very Bioaccumulative. - REACH: Registration, Evaluation, Authorisation and Restriction of Chemicals.
Data sources:	CLP Class - Table 3.1 List of harmonised classification and labelling of hazardous substances. ECHA - C&L Inventory database. Material Safety Data Sheet, Miscellaneous manufacturers.
Evaluation methods	For Methods used for Classification: See sections 11.1 for Health & 12.1 for Environmental.

Texts of the regulatory sentences

Acute Tox. 4 Oral	Acute toxicity (oral) - Category 4
Eye Dam. 1	Serious eye damage, Category 1
H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
Met. Corr. 1	Corrosive to metals - Category 1
Skin Corr. 1B	Skin corrosion, Category 1B

*** *** ***