EST-EEM

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

1.1 - Product identifier

Trade name/designation

Chemical name	EST-EEM
Product-type	Mixture
Product code	A026 EV - Professional Hygiene
UFI:	GM63-9G80-U60X-C298

BPR Notification Number : Malta: 2017-09-27-B01a

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	- Quaternary Ammonium based Liquid Disinfectant. - 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 - 01772 322 200 - Mon to Thurs 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 Thurs 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]

The mixture is classified as hazardous according to regulation (EC) No 1272/2008 [CLP].
H410 should be: H400 Very toxic to aquatic life. & H411 Toxic to aquatic life with long lasting effects.

Skin Irrit. 2	Irritation, Category 2
Eye Dam. 1	Serious eye damage, Category 1
Aquatic Acute 1	Hazardous to the aquatic environment - Aquatic Acute 1
Aquatic Chronic 2	Hazardous to the aquatic environment - Aquatic Chronic 2

2.2 - Label elements

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

Contains: Alkyl (C12-16) Dimethyl Benzyl Ammonium Chloride {ADBAC/BKC (C12-16)}

Signal word : Danger

Hazard pictograms



Hazard statements

H315	Causes skin irritation.
H318	Causes serious eye damage.
H410	Very toxic to aquatic life with long lasting effects.

Precautionary statements

P264	Wash <|[FTB=1]|><|[LML=P264LAV]|><|[FTB=2]|><|[EXP=...]|> thoroughly after handling.
P273	Avoid release to the environment.
P280	Wear <|[FTB=1]|><|[LML=P280PROT]|><|[FTB=2]|><|[EXP=protective gloves/protective clothing/eye protection/face protection]|>.
P302+P352	IF ON SKIN: Wash with plenty of <|[FTB=1]|> <|[LML=P302+P352LAV]|> <|[FTB=2]|>.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310	Immediately call <|[FTB=1]|> <|[LML=P310CALL]|> <|[FTB=2]|>.
P321	Specific treatment (see <|[FTB=1]|> <|[LML=P321INF]|> <|[FTB=2]|> on this label).
P332+P313	If skin irritation occurs: Get medical advice/attention.
P362+P364	Take off contaminated clothing and wash it before reuse.
P391	Collect spillage.
P501	Dispose of <|[LML=P501ELIM]|> <|[LML=P501DISP]|> in accordance with <|[LML=P501REG]|> regulation.

EUH-phrases : None

2.3 - Other hazards

PBT substances

vPvB substances

- This product does not contain any substances classified as PBT or vPvB.

Other hazards which do not result in classification - H410 should be: H400 Very toxic to aquatic life. & H411 Toxic to aquatic life with long lasting effects.

SECTION 3: Composition / information on ingredients

3.1 - Substances

Not applicable

3.2 - Mixtures

Chemical name	No.	%	Class(es)	Information on the substance
C12-15 Alcohol Ethoxylate (7EO)	CAS No. : 68131-39-5 (Alt 157627-86-6) Index No. : EC No. : REACH No. : Exempt	3 - 5	Acute Tox. 4 Oral - H302 Aquatic Acute 1 - H400 Eye Dam. 1 - H318	M-factor: 1 ATE oral 301 (a)
Alkyl (C12-16) Dimethyl Benzyl Ammonium Chloride {ADBAC/BKC (C12-16)}	CAS No. : 68424-85-1 Index No. : EC No. : 270-325-2 REACH No. : 01-2119970550-39-xxxx	3 - 5	Acute Tox. 4 Oral - H302 Aquatic Acute 1 - H400 Aquatic Chronic 1 - H410 Skin Corr. 1B - H314	M-factor: 10 / 1 ATE oral 344 (a)

(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
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. - Give plenty of water to drink. Get medical attention if any discomfort continues.

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	- Causes skin irritation.
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 discomfort if swallowed.

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

- General information: The severity of the symptoms described will vary dependent on the concentration and the length of exposure.
- 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.
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.
- Do not allow run-off from fire-fighting to enter drains or water courses.

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

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	- For handling undiluted product: - Wear protective clothing, gloves, eye and face protection.
Advices on general occupational hygiene	- Avoid contact with skin, eyes and clothes.

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.

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

- No exposure limits known for ingredient(s).

8.2 - Exposure controls

Appropriate engineering controls	- Not relevant.
Individual protection measures, such as personal protective equipment	- Eye protection - 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	Faint surfactant

Odour threshold	No data available
pH	12.5
Melting point	-1 °C
Freezing point	No data available
Boiling point	101 °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	1.013
Density	No data available
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

- No data available.

SECTION 10: Stability and reactivity

10.1 - Reactivity

- This material is considered to be non-reactive under normal use conditions.

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

- No specific material or group of materials is likely to react with the product to produce a hazardous situation.

10.6 - Hazardous decomposition products

- No known hazardous decomposition products.

SECTION 11: Toxicological information

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

Acute toxicity - Not classified

Toxicity : Mixture

ATE oral : 4133.91 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

- ATE being >2000 = Not classified.
- Based on available data, the classification criteria are not 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.
- Low oral toxicity, but ingestion may cause irritation of the gastro-intestinal tract.

Skin corrosion/irritation - Irritation, Category 2 - Causes skin irritation.

- 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

- The evaluation was carried out according to the calculation method.

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	Not applicable
LC50 96 hr fish	Not applicable

ErC50 algae	Not applicable
ErC50 other aquatic plants	Not applicable
NOEC chronic fish	Not applicable
NOEC chronic crustacea	Not applicable
NOEC chronic algae	Not applicable
NOEC chronic other aquatic plants	Not applicable

- Very toxic to aquatic life.
- Toxic to aquatic life with long lasting effects.
- The evaluation was carried out according to the calculation method.
- 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.

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

- The surfactant(s) contained in this product complies(comply) with the biodegradability criteria as laid down in The Detergents Regulations No 648/2004 (as amended). and UK Regulation: SI 2020 No. 1617 "The Detergents (Amendment) (EU Exit) Regulations 2020".

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.

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 by approved waste contractor. 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)	:	UN3082
UN number (RID)	:	UN3082
UN number (IMDG)	:	UN3082

14.2 - UN proper shipping name

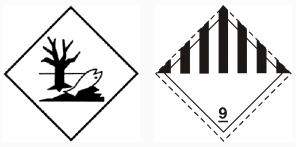
UN proper shipping name (ADR)	:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Alkyl (C12-16) Dimethyl Benzyl Ammonium Chloride {ADBAC/BKC (C12-16)})
UN proper shipping name (RID)	:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Alkyl (C12-16) Dimethyl Benzyl Ammonium Chloride {ADBAC/BKC (C12-16)})
UN proper shipping name (IMDG)	:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Alkyl (C12-16) Dimethyl Benzyl Ammonium Chloride {ADBAC/BKC (C12-16)})

14.3 - Transport hazard class(es)

ADR Transport hazard class(es) : 9

ADR Classification code: : M6

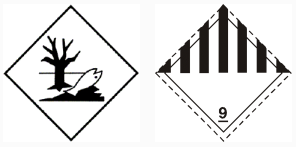
Pictograms



. 9

Transport hazard class(es) (RID) : 9

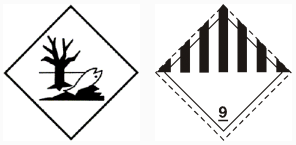
Pictograms



. 9

Transport hazard class(es) (IMDG) : 9

Pictograms



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14.4 - Packing group

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

14.5 - Environmental hazards

Environmental hazards	:	Yes.
Marine pollutant	:	Hazardous to the aquatic environment - Aquatic Acute 1 Hazardous to the aquatic environment - Aquatic Chronic 2

14.6 - Special precautions for user

ADR

ADR Classification code:	:	M6
ADR Special provisions	:	274+335+375+601
ADR Limited quantity (LQ)	:	5L
ADR Excepted quantities	:	E1
ADR Packing instructions	:	P001 IBC03 LP01 R001
ADR Special packing provisions	:	PP1
ADR Mixed packing provisions	:	MP19
Instructions for portable tanks and bulk containers	:	T4
Special provisions for portable tanks and bulk containers	:	TP1 TP29
ADR tank code	:	LGBV
ADR tanks special provisions	:	Packs 5 litre and under are exempt from
Vehicle for tank carriage	:	AT
ADR Transport category	:	3
ADR Tunnel restriction code	:	-
ADR Special provisions loading, unloading and handling	:	CV13
Special provisions - Packages	:	V12
Special provisions - Bulk	:	
Special provisions - Operation	:	
ADR Hazard identification number (Kemler No.)	:	90

RID

Special provisions	:	Packs 5 litre and under are exempt from Transport Regulation
Limited quantity (LQ)	:	
Excepted quantities	:	

IMDG

Special provisions	:	274 335 969
Limited quantity (LQ)	:	5 L
Excepted quantities	:	E1
Packing instructions	:	LP01 P001
Special packing provisions	:	PP1
IBC instruction(s)	:	IBC03
IBC provisions	:	
Instructions for portable tanks and bulk containers	:	T4
Special provisions for portable tanks and bulk containers	:	TP1 TP29
EmS codes	:	F-A, S-F
Stowage and handling	:	Category A
Segregation	:	
Properties and observations	:	Packs 5 litre and under are exempt from Transport Regulations. Reference: IMDG section 2.10.2.7 / ADR Special Provision 375.

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).

- The surfactant(s) contained in this product complies(comply) with the biodegradability criteria as laid down in The Detergents Regulations No 648/2004 (as amended). and UK Regulation: SI 2020 No. 1617 "The Detergents (Amendment) (EU Exit) Regulations 2020"

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
14	09/03/2026		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.
- 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.
Data sources:	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.
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
Aquatic Acute 1	Hazardous to the aquatic environment - Aquatic Acute 1
Aquatic Chronic 1	Hazardous to the aquatic environment - Aquatic Chronic 1
Aquatic Chronic 2	Hazardous to the aquatic environment - Aquatic Chronic 2
Eye Dam. 1	Serious eye damage, Category 1
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H410	Very toxic to aquatic life with long lasting effects.
Skin Corr. 1A	Skin corrosion, Category 1A
Skin Corr. 1B	Skin corrosion, Category 1B
Skin Irrit. 2	Irritation, Category 2

*** *** ***