

1. IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND OF THE COMPANY / UNDERTAKING

- 1.1 Product Identifier**
Material name : EGR Cleaner Aerosol 500ml, Part Number: XOMEGR, UFI:DJJ5-P01E-H004-NPP2
- 1.2 Relevant identified uses of the substance or mixture and uses advised against**
Product use : Solvent cleaner
- 1.3 Details of the supplier of the safety data sheet**
Manufacturer/Supplier: Emissco Ltd
New Haden Road
Brookhouses Ind Est
Cheadle
Staffordshire
ST10 1UF

Tel. : 01538 752561

Email (for SDSs) : info@emissco.co.uk
- 1.4 Emergency tel. no.:** 01538 752561 (Available 9am-5pm)

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

According to 1272/2008/EC: Classification, Labelling and Packaging of Substances and Mixtures (CLP) Regulation:

Physical and Chemical Hazards	Flammable Aerosol Category 1; H222; H229
Human health	Ac.Tox.4; H312+H332; Skin Irrit.2; H315; Eye Irrit.2; H319; STOT SE3; H336; Repr.2; H361; STOT RE2; H373
Environment	Not classified

2.2 Label elements

Labelling according to EC Directives: 1272/2008/EC

Signal word: Danger

Contains: 1-methylbenzene; Ethylene glycol monobutyl ether; Propan-2-one;
Xylene (mixed isomers)

Hazard Pictogram(s):



Hazard Statements:	H222	Extremely flammable aerosol.
	H229	Pressurised container: May burst if heated.
	H312+H332	Harmful in contact with skin or if inhaled.
	H315	Causes skin irritation
	H319	Causes serious eye irritation
	H336	May cause drowsiness or dizziness.
	H361	Suspected of damaging fertility or the unborn child.
H373	May cause damage to organs through prolonged or repeated exposure.	
Precautionary Statements:	P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
	P211	Do not spray on an open flame or other ignition source.

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Precautionary

Statements (continued):	P251 P410+P412 P260 P271 P280 P302+P352 P305+P351+P338 P308+P313 P501	Do not pierce or burn, even after use. Protect from sunlight. Do not expose to temperatures exceeding 50°C. Do not breathe vapour/spray. Use only outdoors or in a well-ventilated area. Wear protective gloves/eye/face protection. IF ON SKIN: Wash with plenty of soap and water. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. IF exposed or concerned: Get medical advice/attention. Dispose of contents/container in accordance with local/national regulations.
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2.3 Other hazards In use, may form flammable / explosive vapour-air mixture.

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.2 Mixtures:

Hazardous components

Chemical Name	CAS No./ EC No./ Reg. No	Classification (1272/2008/EC)	Content
LIQUEFIED PETROLEUM GAS (contains <0.1% 1,3-butadiene)	68476-85-7 270-704-2	Flam.Gas 1; H220 Gas under pressure; H280	30-35%
1-METHYLBENZENE	108-88-3 203-625-9 01-2119471310-51-xxxx	Flam. Liq. 2; H225 Asp. Tox. 1; H304 Sk.Irrit. 2; H315 STOT SE3; H336 Repr. 2; H361fdi STOT RE2; H373i	20-25%
ETHYLENE GLYCOL MONOBUTYL ETHER	111-76-2 203-905-0 01-2119475108-36-xxxx	Ac.Tox.4; H302+H312+H332 Sk.Irrit.2; H315 Eye Irrit 2; H319	15-20%
PROPAN-2-ONE	67-64-1 200-662-2 01-2119471330-49-xxxx	Flam.Liq. 2; H225 Eye Irrit. 2; H319 STOT SE3; H336 EUH066	15-20%
XYLENE (MIXED ISOMERS)	1330-20-7 215-535-7 01-2119488216-32-xxxx	Flam. Liq. 3; H226 Ac.Tox.4; H312, H332 Sk.Irrit. 2; H315	10-15%

See Section 16 for the full text of the H-statements noted above.

(1272/2008/EC: Classification, Labelling and Packaging of Substances and Mixtures (CLP) Regulation).

4. FIRST AID MEASURES

4.1 Description of first aid measures

General advice: Remove casualty from exposure ensuring one's own safety whilst doing so. Take off any contaminated clothing and shoes/boots immediately. Never give anything by mouth to an unconscious person.

Skin contact: Wash with soap and water. Seek medical advice if irritation develops.

Eye contact: Rinse with water for 10 minutes and seek medical attention if irritation persists.

Ingestion: Rinse mouth with water and give water to drink. Do not induce vomiting. Seek medical advice.

Inhalation: Remove to fresh air. Seek medical advice.

4.1 Description of first aid measures (continued)

4.2 Most important symptoms and effects, both acute and delayed: May cause skin irritation. May cause eye irritation.

4.3 Indication of any immediate medical attention and special treatment needed: See skin and eye contact information above.

5. FIRE-FIGHTING MEASURES**5.1 Extinguishing media**

Suitable extinguishing media: Carbon dioxide; dry chemical powder; alcohol or polymer foam.
Unsuitable extinguishing media: High volume water jet

5.2 Special hazards arising from the substance or mixture

Specific hazards during fire-fighting: Irritating/toxic fumes may be released at elevated temperatures.

5.3 Advice for fire-fighters:

Special protective equipment: Wear self-contained breathing apparatus. Use personal protective equipment.
Further information: Standard procedure for chemical fires. Use water spray to cool containers.
Do not allow fire run-off to enter drains.

6. ACCIDENTAL RELEASE MEASURES**6.1 Personal precautions, protective equipment and emergency procedures**

Evacuate personnel to safe areas. Mark out the contaminated area with signs and prevent access to unauthorised personnel. Use personal protective equipment to deal with spillage.

6.2 Environmental precautions

Contain the spillage using sufficient appropriate absorbent material. Do not discharge into drains or rivers, but if contamination to waterways has occurred, inform local authorities.

6.3 Methods and materials for containment and cleaning up

Wipe up liquid spillage with absorbent material such as sand, earth, or vermiculite, and place in a labelled container for disposal in accordance with local/national regulations.

6.4 References to other sections: See sections 8 and 13 for personal protection and disposal information.

7. HANDLING AND STORAGE**7.1 Precautions for safe handling**

Avoid breathing spray mist. Avoid contact with skin and eyes. Handle with care.

7.2 Conditions for safe storage, including any incompatibilities

Store in a cool, well ventilated area, below 50°C. Protect from frost, heat and sunlight. Keep away from food, drink and animal feed.

7.3 Specific end use(s): No information available.

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8. EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Control parameters

Chemical name	8hr TWA	15min STEL	Reference
Liquefied petroleum gas	1750 mg/m ³ /1000ppm	2810 mg/m ³ /1250 ppm	EH40/2005
1-methylbenzene	191 mg/m ³ /50 ppm	284 mg/m ³ /100 ppm	(Sk) EH40/2005
Ethylene glycol monobutyl ether	123 mg/m ³ /25 ppm	246 mg/m ³ /50 ppm	(Sk) BMGV; EH40/2005
Propan-2-one	1210 mg/m ³ /500 ppm	3620 mg/m ³ /1500ppm	EH40/2005
Xylene (mixed isomers)	220 mg/m ³ /50 ppm	441 mg/m ³ /100 ppm	(Sk) EH40/2005

DNEL:

DNEL (workers)	1-methylbenzene	Ethylene glycol monobutyl ether	Propan-2-one	Xylene (mixed isomers)	Reference
Chronic systemic effects (dermal)	180 mg/kg/day	75 mg/kg bw/day	186 mg/kg bw/day	180 mg/kg bw/day	Manufacturer
Chronic systemic effects (inhalation)	192 mg/kg/day	98 mg/m ³	1210 mg/m ³	77 mg/m ³	Manufacturer

DNEL (consumers)	1-methylbenzene	Ethylene glycol monobutyl ether	Propan-2-one	Xylene (mixed isomers)	Reference
Chronic systemic effects (dermal)	226 mg/kg/day	38 mg/kg bw/day	62 mg/kg bw/day	108 mg/kg bw/day	Manufacturer
Chronic local effects (inhalation)	-	426 mg/m ³	200 mg/m ³	14.8 mg/m ³	Manufacturer
Chronic systemic effects (inhalation)	56.5 mg/kg/day	-	-	-	Manufacturer
Chronic systemic effects (oral)	-	-	-	-	Manufacturer

PNEC:

Environment	1-methylbenzene	Ethylene glycol monobutyl ether	Propan-2-one	Xylene (mixed isomers)
Aquatic Compartment				
Fresh water	0.68 mg/l	8.8 mg/l	10.6 mg/l	0.327 mg/l
Marine water	-	8.8 mg/l	1.06 mg/l	0.327 mg/l
Water-intermittent (sporadic) release	-	-	21 mg/l	6.58 mg/l
Dry Sediment (fresh water)	16.39 mg/kg	8.14 mg/kg	30.4 mg/kg	12.46 mg/kg
Dry Sediment (marine water)	-	-	3.04 mg/kg	12.46 mg/kg
Terrestrial Compartment				
Dry soil	2.89 mg/kg	2.8 mg/kg	29.5 mg/kg	2.31 mg/kg

8.2 Exposure controls

Engineering measures: Ensure there is sufficient ventilation of the area.

Personal protective equipment

Respiratory protection: If Workplace Exposure Limit(s) listed above are exceeded, respiratory protection may be required, in which case use a respirator fitted with an organic vapour filter.

Hand protection: Protective gloves; check with glove manufacturer for specific advice.

Eye protection: Tightly-fitting safety goggles.

Skin and body protection: Protective overalls. (Sk) noted above means can be absorbed through skin.

Hygiene measures: Handle in accordance with good industrial hygiene and safety practices. Do not eat or drink whilst using the product. Wash hands before breaks and at the end of the work day. Wash contaminated clothing before re-use.

Environmental exposure controls: Do not discharge into drains or rivers.

9. PHYSICAL AND CHEMICAL PROPERTIES**9.1 Information on basic physical and chemical properties**

State and colour	Aerosol emitting colourless spray.
Odour	Ketone/aromatic
Odour Threshold	No data available
Flammability	Extremely flammable
Flash point	<0°C
Lower explosion limit	0.6%
Upper explosion limit	13.0%
Explosive properties	Not explosive
Thermal decomposition	No data available
Auto-ignition temperature	No data available
Oxidising properties	Non-oxidising
Solubility in water	Partially soluble
Solubility in other solvents	Soluble in most common organic solvents.
pH	Not applicable
Melting point/range	No data available
Boiling point/range	No data available
Relative density	No data available
Vapour pressure	No data available
Vapour density	No data available
Partition coefficient: n-octanol/water	No data available
Viscosity (kinematic)	No data available
Evaporation rate	No data available

9.2 Other information No data available

10. STABILITY AND REACTIVITY

10.1 Reactivity	Generally non-reactive.
10.2 Chemical stability	Stable under normal conditions.
10.3 Possibility of hazardous reactions	None if stored and used as directed.
10.4 Conditions to avoid	None known.
10.5 Incompatible materials	Strong acids. Strong alkalis. Strong oxidising agents.
10.6 Hazardous decomposition products	Oxides of carbon.

11. TOXICOLOGICAL INFORMATION**11.1 Information on toxicological effects****Acute toxicity**

Chemical name	Oral (LD50)	Inhalation (LC50)	Dermal (LD50)
LIQUEFIED PETROLEUM GAS	Not applicable	>20mg/l (Rat) 4h	Not applicable
1-METHYLBENZENE	636 mg/kg (Rat)	12,500-28,800 mg/m ³ (Rat)	12,196 mg/kg
ETHYLENE GLYCOL MONOBUTYL ETHER	300-2000 mg/kg (Rat)	No data available	1000-2000 mg/kg (Rat)
PROPAN-2-ONE	5800 mg/kg (Rat)	>50100 mg/m ³ (Rat)	7426 mg/kg (Guinea pig)
XYLENE (MIXED ISOMERS)	5251 mg/kg (Mouse)	5000 ppm (Rat) 4h	>1700 mg/kg (Rabbit)

Skin corrosion/irritation:	Prolonged or repeated contact may cause irritation, skin dryness or cracking.
Serious eye damage/eye irritation:	May cause eye irritation.
Respiratory or skin sensitisation:	Not expected to be a sensitiser.
Repeated dose toxicity:	Not expected to be a hazard.
Carcinogenicity:	Not carcinogenic.
Mutagenicity:	Not mutagenic.
Toxicity for reproduction:	1-methylbenzene is suspected of damaging fertility or the unborn child.
Specific target organ toxicity (STOT):	May cause drowsiness or dizziness. May cause damage to organs through prolonged or repeated exposure (by inhalation).
Further information	The product as a whole may cause irritation of skin, eyes, nose and upper respiratory tract if exposed to high levels of spray mist.

12. ECOLOGICAL INFORMATION**12.1 Toxicity**

Chemical name	Species	Test	Value
1-METHYLBENZENE	Daphnia	EC50 24h	8mg/l
	Rainbow trout	LC50 96h	7.63mg/l
	Algae	EC50 24h	245mg/l
ETHYLENE GLYCOL MONOBUTYL ETHER	Daphnia	EC50 24h	>100 mg/l
	Fish	LC50 96h	>100 mg/l
	Algae	EC50 7d	>100 mg/l
PROPAN-2-ONE	Daphnia	EL0 48h	1000 mg/l
	Rainbow trout	LL0 96h	1000 mg/l
	Algae	EL0 72h	1000 mg/l
XYLENE (MIXED ISOMERS)	Daphnia	EC50 24h	3.82 mg/l
	Rainbow trout	LC50 96h	2.6 mg/l
	Algae	EC50 24h	4.63 mg/l

Physical properties indicate that petroleum gases will rapidly volatilise from the aquatic environment and that acute and chronic effects would not be observed in practice.

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12.2 Persistence and degradability	Expected to be mainly biodegradable.
12.3 Bioaccumulative potential	No data available.
12.4 Mobility in soil	Partially soluble in water.
12.5 Results of PBT and vPvB assessment	Contains no PBT or vPvB substances.
12.6 Other adverse effects	No data available.

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods


Disposal operations: Dispose of in accordance with local and national regulations.
Contact licensed waste disposal company. Most aerosols can be recycled.
Do not pierce or burn or use a cutting torch on the empty aerosol container.

14. TRANSPORT INFORMATION

General Information: The UN number for all aerosols is 1950. Aerosols packed in fibreboard cartons up to 30 kg gross weight, or shrink/stretch wrapped onto trays up to 20 kg gross weight may be transported as Limited Quantities, and should display the following symbol on the pack:



The following information relates to all other aerosols not transported as Limited Quantities:

14.1 UN number	ADR/RID/ADN; IMDG; ICAO	1950
14.2 UN proper shipping name	AEROSOLS	
14.3 Transport hazard class(es)	ADR/RID/ADN Class	2, 5F
	ADR/RID/ADN Class	Class 2, Gases
	ADR Label No.	2.1
	IMDG Class	2
	ICAO Class/Division	2
	ICAO Subsidiary risk	2.1
		
	Transport labels	
14.4 Packing Group	ADR/RID/ADN; IMDG; ICAO	Not applicable for aerosols
14.5 Environment hazards	Marine Pollutant	Not applicable for aerosols.

Transport information (continued)

14.6 Special precautions for user EMS F-D, S-U
Tunnel restriction code D

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

15. REGULATORY INFORMATION**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture****UK Regulatory References**

The Control of Substances Hazardous to Health Regulations 2002 (S.I 2001 No.2677) with amendments.

EU Directives

Regulations (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006 with amendments.

Statutory Instruments

The Chemicals (Hazard information and Packaging for Supply) Regulations 2009 (S.I. 2009 No. 716).

Guidance Notes

Health and Safety Executive Workplace Exposure Limits EH40.

15.2 Chemical Safety Assessment

Chemical Safety Assessments/Reports (CSA/CSR) are not required for mixtures.

16. OTHER INFORMATION

This safety data sheet is prepared in accordance with Regulation (EC) No 1907/2006 (REACH - Registration, Evaluation, Authorisation and Restriction of Chemicals) as amended, and Regulation EU 453/2010.

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) No 1272/2008 (CLP):

Physical hazards: On basis of test data/Expert judgement.
Health hazards: Calculation method
Environmental hazards: Calculation method

Full text of H-statements referred to under sections 2 and 3

H220 Extremely flammable gas.
H222 Extremely flammable aerosol.
H225 Highly flammable liquid and vapour.
H226 Flammable liquid and vapour.
H229 Pressurised container: May burst if heated.
H280 Contains gas under pressure; may explode if heated.
H302 Harmful if swallowed.
H304 May be fatal if swallowed and enters airways.
H312 Harmful in contact with skin.
H315 Causes skin irritation

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Full text of H-statements referred to under sections 2 and 3 (continued)

H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H336	May cause drowsiness or dizziness.
H361	Suspected of damaging fertility or the unborn child.
H373	May cause damage to organs through prolonged or repeated exposure.
EUH066	Repeated exposure may cause skin dryness or cracking.

Abbreviations and acronyms

CAS: Chemical Abstract Service (division of the American Chemical Society). {Section 3}.

STOT: Single Target Organ Toxicity (Section 2;11)

SE: Single exposure (Section 2)

DNEL: Derived no effect level – a level above which humans should not be exposed. (Section 8).

PNEC: Predicted No Effect Concentration (Section 8).

TWA: Time-weighted average. (Section 8).

STEL: Short-term exposure limit. (Section 8).

PBT: Persistent, Bioaccumulative, Toxic. (Section 12).

vPvB: very Persistent and very Bioaccumulative. (Section 12).

Legal disclaimer: The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. This company shall not be held liable for any damage resulting from handling or from contact with the above product.

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