Emissco

Carb Cleaner Aerosol

Material Safety Data Sheet

SAFETY DATA SHEET

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

1.1 Product Identifier

Material name : Carb Cleaner Aerosol

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)

National emergency telephone number: UK NPIS 0344 892 0111 Ireland NPIC (01) 809 2566
National Poisons Information Centre on 01 809 2166

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

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

Physical and Chemical Hazards	Aerosol Cat. 1; H222; H229
Human health	Ac.Tox.4; H332; Skin Irrit.2; H315; Eye Irrit.2; H319; STOT SE3; H336; Repr.2; H361d; STOT RE2; H373
Environment	Not classified

2.2 Label elements

Labelling according to EC Directives: 1272/2008/EC

Signal word: Danger **Contains:** Toluene; Acetone

Hazard Pictogram(s):

Hazard Statements:

H222	Extremely flammable aerosol.
H229	Pressurised container: May burst if heated.
H315	Causes skin irritation
H319	Causes serious eye irritation
H332	Harmful if inhaled.
H336	May cause drowsiness or dizziness.
H361d	Suspected of damaging 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.
	P251	Do not pierce or burn, even after use.
	P410+P412	Protect from sunlight. Do not expose to temperatures exceeding 50°C.
	P260	Do not breathe vapour/spray.
	P271	Use only outdoors or in a well-ventilated area.
	P280	Wear protective gloves/eye/face protection.
	P302+P352	IF ON SKIN: Wash with plenty of soap and water.
	P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.
	P308+P313	IF exposed or concerned: Get medical advice/attention.
	P501	Dispose of contents/container in accordance with local/national regulations.

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./ Index No./ Reg. No	Classification (1272/2008/EC)	SCL/ M-Factor/ ATE	Content
LIQUEFIED PETROLEUM GAS (contains <0.1% 1,3-butadiene)	68476-85-7 270-704-2	Flam.Gas 1; H220 Gas under pressure; H280	No relevant data.	30-35%
TOLUENE	108-88-3 203-625-9 601-021-00-3 01-2119471310-51	Flam. Liq. 2; H225 Asp. Tox. 1; H304 Sk.Irrit. 2; H315 STOT SE3; H336 Repr. 2; H361d STOT RE2; H373	No relevant data.	20-25%
2-BUTOXYETHANOL	111-76-2 203-905-0 603-014-00-0 01-2119475108-36	Ac.Tox.4; H302, H332 Sk.Irrit.2; H315 Eye Irrit 2; H319	Oral ATE=1200 mg/kg bw	15-20%
ACETONE	67-64-1 200-662-2 606-001-00-8 01-2119471330-49	Flam.Liq. 2; H225 Eye Irrit. 2; H319 STOT SE3; H336 EUH066	No relevant data.	15-20%
XYLENE (MIXED ISOMERS)	1330-20-7 215-535-7 601-022-00-9 01-2119488216-32	Flam. Liq. 3; H226 Ac.Tox.4; H312, H332 Sk.Irrit. 2; H315	No relevant data.	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.

4.2 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.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Control parameters

Occupational exposure limit values

Chemical name	8hr TWA	15min STEL	Reference
Liquefied petroleum gas	1750 mg/m^3/1000ppm	2810 mg/m^3/1250 ppm	UK EH40/2005
Toluene	191 mg/m^3/50 ppm	284 mg/m^3/100 ppm	(Sk) UK EH40/2005
2-butoxyethanol	123 mg/m^3/25 ppm	246 mg/m^3/50 ppm	(Sk) BMGV; UK EH40/2005
	20 ppm	-	EU agreed limit
Acetone	1210 mg/m^3/500 ppm	3620 mg/m^3/1500ppm	UK EH40/2005
Xylene (mixed isomers)	220 mg/m^3/50 ppm	441 mg/m^3 /100 ppm	(Sk) UK EH40/2005

Information on monitoring procedures:

Reference standard: EN 14042:2003 - “Workplace atmospheres. Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents”.

DNEL:

DNEL (workers)	Toluene	2-butoxyethanol	Acetone	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)	Toluene	2-butoxyethanol	Acetone	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	Toluene	2-butoxyethanol	Acetone	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

Appropriate engineering controls: Ensure there is sufficient ventilation of the area.

Personal protection

Eye/face protection: Chemical splash goggles if eye contact is reasonably probable. The selected goggles or glasses must satisfy the European standard EN 166.

Skin protection: Wear chemically resistant gloves such as butyl rubber approved to standard EN 374; material thickness 0.5mm; break through time ≥ 480 min. Gloves must be replaced after 8 hours of wear. Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough. Check with glove manufacturer for specific advice.
Depending on the conditions of use, protective gloves, apron, boots, head and face protection should be worn. The selected protective clothing has to satisfy the standard EN 13034, which describes clothing offering limited 8 hour protection against splashes. Use PPE that is chemically resistant to the product and prevents skin contact. (Sk) noted above means can be absorbed through skin.

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.

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

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Physical state	Aerosol
Colour	Colourless
Odour	Ketone/aromatic
Melting point/freezing point	No data available
Boiling point/range	No data available
Flammability	Extremely flammable
Lower/Upper explosion limit	0.6% / 13.0%
Flash point	<0°C
Auto-ignition temperature	No data available
Decomposition temperature	No data available
pH	No data available – not 100% polar
Kinematic viscosity	No data available
Solubility	Partially soluble in water; soluble in most common organic solvents.
Partition coefficient: n-octanol/water	Not applicable for mixtures
Vapour pressure	No data available
Density	No data available
Relative vapour density	No data available
Particle characteristics	Not applicable

9.2 Other information: VOC Content: 100%

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 hazard classes as defined in Regulation (EC) No. 1272/2008

The mixture as a whole has not been tested for toxicological effects. Toxicological data on individual components is listed below.

Chemical name	Oral (LD50)	Inhalation (LC50)	Dermal (LD50)
LIQUEFIED PETROLEUM GAS	Not applicable	>20mg/l (Rat) 4h	Not applicable
TOLUENE	>5000 mg/kg (Rat)	>20 mg/l (Rat)	>5000 mg/kg (Rabbit)
2-BUTOXYETHANOL	1300 mg/kg (Guinea pig)	LC0: >2 mg/l (Guinea pig)	>2000 mg/kg (Guinea pig)
ACETONE	5800 mg/kg (Rat)	76,000 mg/m^3 (Rat)	7400 mg/kg (Guinea pig)
XYLENE (MIXED ISOMERS)	3523 mg/kg (Male Rat)	>20,000 mg/m^3 (Rat) 4h	>2000 mg/kg (Rabbit)

Acute toxicity The mixture is classified as Ac.Tox.4, H332: Harmful if inhaled.

Skin corrosion/irritation: The mixture is classified as Sk. Irrit. 2, H315: Causes skin irritation.

Serious eye damage/eye irritation: The mixture is classified as Eye Irrit. 2, H319: Causes serious eye irritation.

Respiratory or skin sensitisation: Based on available data, the classification criteria are not met.

Carcinogenicity: Based on available data, the classification criteria are not met.

Mutagenicity: Based on available data, the classification criteria are not met.

Toxicity for reproduction: The mixture is classified as Repr.2; H361d suspected of damaging the unborn child.

Specific target organ toxicity (STOT) Single exposure: The mixture is classified as STOT SE3, H336; May cause drowsiness or dizziness.

Specific target organ toxicity (STOT) Repeated exposure: The mixture is classified as STOT RE2, H373; May cause damage to organs through prolonged or repeated exposure.

Aspiration hazard Based on available data, the classification criteria are not met.

11.2 Information on other hazards No information available.

Endocrine disrupting properties No ingredients have been identified as having endocrine disrupting properties.

12. ECOLOGICAL INFORMATION

The mixture as a whole has not been tested for ecological effects. Ecological data on individual components is listed below.

Chemical name	Species	Test	Value
TOLUENE	Daphnia Rainbow trout Algae	EC50 24h LC50 96h EC50 24h	8mg/l 7.63mg/l 245mg/l
2-BUTOXYETHANOL	Daphnia Fish Algae	EC50 24h LC50 96h EC50 7d	>100 mg/l >100 mg/l >100 mg/l
ACETONE	Daphnia Rainbow trout Algae	EL0 48h LL0 96h EL0 72h	1000 mg/l 1000 mg/l 1000 mg/l
XYLENE (MIXED ISOMERS)	Daphnia Rainbow trout Algae	EC50 24h LC50 96h EC50 24h	3.82 mg/l 2.6 mg/l 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.

12.1 Toxicity:	Based on available data, the classification criteria are not met.
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 Endocrine disrupting properties	No ingredients have been identified as having endocrine disrupting properties.
12.7 Other adverse effects	
Persistent Organic Pollutant	This product does not contain any known or suspected substance.
Ozone Depletion Potential	This product does not contain any known or suspected substance.

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.
14.6 Special precautions for user	EMS	F-D, S-U
	Tunnel restriction code	(D)
14.7 Maritime transport in bulk according to IMO instruments		Not applicable for aerosols.

15. REGULATORY INFORMATION

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

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.

15.2 Chemical Safety Assessment

A Chemical Safety Assessment has not been performed on this product.

16. OTHER INFORMATION

This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006 and Commission Regulation (EU) 2020/878 amending Annex II to Regulation (EC) No. 1907/2006.

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:	Not classified

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.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H336	May cause drowsiness or dizziness.
H361d	Suspected of damaging 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

ATE: Acute Toxicity Estimate.
CAS: Chemical Abstract Service (division of the American Chemical Society).
STOT: Single Target Organ Toxicity
SE: Single exposure
DNEL: Derived no effect level – a level above which humans should not be exposed.
PNEC: Predicted No Effect Concentration
TWA: Time-weighted average.
SCL: Specific Concentration Limit
STEL: Short-term exposure limit.
PBT: Persistent, Bioaccumulative, Toxic.
vPvB: very Persistent and very Bioaccumulative.

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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