

1. IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND OF THE COMPANY / UNDERTAKING**1.1 Product Identifier**

Material name : Brake Cleaner 5L, Part Number: XOMBCS5L, UFI: X7J5-N08U-9002-0AN0
Product code :

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:

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	Flam. Liq.2; H225
Human health	Asp. Tox.1; H304; Skin Irrit.2; H315; STOT SE3; H336
Environment	Aquatic Chronic 2; H411

2.2 Label elements

Labelling according to EC Directives: 1272/2008/EC:

Signal word: Danger

Contains: Hydrocarbons, C6, isoalkanes, <5% n-Hexane;
Hydrocarbons, C7, n-Alkanes, Isoalkanes, Cyclics

Hazard Pictogram(s):



Hazard Statements:	H225	Highly flammable liquid and vapour.
	H304	May be fatal if swallowed and enters airways.
	H315	Causes skin irritation.
	H336	May cause drowsiness or dizziness.
	H411	Toxic to aquatic life with long lasting effects.

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Precautionary Statements:

P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P261	Avoid breathing vapours.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P273	Avoid release to the environment.
P301+P310	IF SWALLOWED: Immediately call a POISON CENTER/doctor.
P331	Do NOT induce vomiting.
P302+P352	IF ON SKIN: Wash with plenty of water.
P332+P313	If skin irritation occurs: 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
HYDROCARBONS, C6, ISOALKANES, <5% n-HEXANE	64742-49-0 931-254-9 01-2119484651-34	Flam. Liq. 2; H225 Asp. Tox. 1; H304 Skin Irrit. 2; H315 STOT SE 3; H336 Aquatic Chronic 2; H411	No relevant data.	≥50-≤75%
HYDROCARBONS, C7, n- ALKANES, ISOALKANES, CYCLICS	64742-49-0 927-510-4 01-2119475515-33	Flam. Liq. 2; H225 Asp. Tox. 1; H304 Skin Irrit. 2; H315 STOT SE 3; H336 Aquatic Chronic 2; H411	M-Factor = 0	≥25-≤50%

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 advice if irritation persists.

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

Inhalation: May cause drowsiness or dizziness, if affected remove to fresh air and seek medical advice.

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

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

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

Suitable extinguishing media: Use Carbon Dioxide, Dry Powder or Foam.
Unsuitable extinguishing media: 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 unopened 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

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

Use absorbent material, sand, earth, vermiculite, etc. and place in a container for disposal; flush spillage site with water.

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 contact with skin and eyes. Handle with care. General good housekeeping practices. Do not eat or drink whilst using the product.

7.2 Conditions for safe storage, including any incompatibilities

Store in a cool, well ventilated area. Keep container tightly closed.

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
RCP Aliphatic solvents 60-95, low n-hexane	1000 mg/m ³ /250 ppm	-	UK SIA

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)	HYDROCARBONS, C7, n-ALKANES, ISOALKANES, CYCLICS	HYDROCARBONS, C6, ISOALKANES, <5% n-HEXANE
Chronic systemic effects (dermal)	300 mg/kg	13964 mg/kg bw/day
Chronic systemic effects (inhalation)	2085 mg/m ³	5306 mg/m ³

DNEL (consumers)	HYDROCARBONS, C7, n-ALKANES, ISOALKANES, CYCLICS	HYDROCARBONS, C6, ISOALKANES, <5% n-HEXANE
Chronic systemic effects (dermal)	-	1377 mg/kg bw/day
Chronic systemic effects (inhalation)	447 mg/m ³	1131 mg/m ³
Chronic systemic effects (oral)	149 mg/kg	1301 mg/kg/day

PNEC: The hydrocarbon solvent is a hydrocarbon with a complex, unknown or variable composition (UVCB). Conventional methods of deriving PNECs are not appropriate and it is not possible to identify a single representative PNEC for such substances.

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 \geq 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.

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	Liquid
Colour	Colourless
Odour	Characteristic
Melting point/freezing point	No data available
Boiling point/range	60-100°C
Flammability	Flammable
Lower/Upper explosion limit	1.0% / 7.0%
Flash point	<0°C
Auto-ignition temperature	413°C
Decomposition temperature	No data available
pH	Not applicable – non polar
Kinematic viscosity	0.5 mm ² /s @40°C
Solubility	Insoluble in water
Partition coefficient: n-octanol/water	Not applicable for mixtures
Vapour pressure	2.7 kPa @20°C
Density	0.685
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	Hot surfaces. Sources of ignition. Flames.
10.5 Incompatible materials	Strong acids. Strong alkalis. Strong oxidising agents.
10.6 Hazardous decomposition products	Oxides of carbon, acrid smoke, irritating fumes.

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)
HYDROCARBONS, C7, n-ALKANES, ISOALKANES, CYCLICS	>5840 mg/kg (Rat)	>23300 mg/m ³ (Rat) 4h	>2920 mg/kg (Rat)
HYDROCARBONS, C6, ISOALKANES, <5% n-HEXANE	16750 mg/kg (Rat)	>259354 mg/m ³ (Rat) 4h	>3350 mg/kg (Rat)

Acute toxicity Based on available data, the classification criteria are not met.

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

Serious eye damage/irritation: Based on available data, the classification criteria are not met.

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

Germ cell mutagenicity: Based on available data, the classification criteria are not met.

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Carcinogenicity:	Based on available data, the classification criteria are not met.
Reproductive toxicity:	Based on available data, the classification criteria are not met.
STOT – single exposure:	The mixture is classified as STOT SE3, H336; May cause drowsiness or dizziness.
STOT – repeated exposure:	Based on available data, the classification criteria are not met.
Aspiration hazard:	The mixture is classified as Asp.1; H304; May be fatal if swallowed and enters airways.
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
HYDROCARBONS, C7, n-ALKANES, ISOALKANES, CYCLICS	Daphnia	LC50 (48h)	3 mg/l
	Rainbow trout	LC50 (96h)	13.4 mg/l
	Algae	EC50 (72h)	10 mg/l
HYDROCARBONS, C6, ISOALKANES, <5% n-HEXANE	Daphnia	EC50 (48h)	31.9 mg/l
	Rainbow trout	EC50 (96h)	18.27 mg/l
	Algae	EC50 (72h)	13.6 mg/l

12.1 Toxicity	The mixture is classified as Aquatic Chronic 2; H411: Toxic to aquatic life with long lasting effects.
12.2 Persistence and degradability	Readily biodegradable.
12.3 Bioaccumulative potential	Low potential for bioaccumulation.
12.4 Mobility in soil	Insoluble in water.
12.5 Results of PBT and vPvB assessment	Not considered to be PBT or vPvB.
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

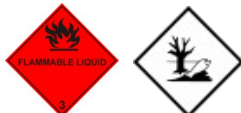
Disposal operations: Dispose of in accordance with local and national regulations. Do not dispose of waste into sewer.
Do not dispose of together with household waste. Contact licensed waste disposal company.
Empty containers should be taken to an approved waste handling site for recycling or disposal.
Do not burn or use a cutting torch on the empty container.

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14. TRANSPORT INFORMATION

- 14.1 UN number:** 3295
- 14.2 UN proper shipping name:** HYDROCARBONS, LIQUID, N.O.S
- 14.3 Transport hazard class(es):** Class: 3
Transport labels:



- 14.4 Packing Group:** II
- 14.5 Environment hazards:** Marine Pollutant: Yes
- 14.6 Special precautions for user:** EMS: F-E, S-E
Tunnel restriction code: (D/E)
- 14.7 Maritime transport in bulk according to IMO instruments:** Not applicable.

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: Calculation method

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

H225 Highly flammable liquid and vapour.
H304 May be fatal if swallowed and enters airways
H315 Causes skin irritation.
H336 May cause drowsiness or dizziness
H411 Toxic to aquatic life with long lasting effects.

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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