

1. IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND OF THE COMPANY / UNDERTAKING**1.1 Product Identifier**Material name : Petrol System Cleaner
Product code :**1.2 Relevant identified uses of the substance or mixture and uses advised against**

Product use : Solvent

1.3 Details of the supplier of the safety data sheetManufacturer/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 Flam.Liq.2; H225
Human health Asp. Tox.1; H304; Sk.Irrit.2; H315; Eye Dam.1; H318; STOT SE3; H336;
STOT RE2; H373; Repr.2; H361fd
Environment Aq.Chron.3; H412**2.2 Label elements**

Labelling according to EC Directives: 1272/2008/EC

Signal word: Danger

Contains: Toluene, 4-Nonylphenol branched, ethoxylated,
Hydrocarbons, C9-C11, n-Alkanes, Isoalkanes, Cyclics, <2% aromatics

Pictogram(s):



Hazard Statements:	H225	Highly flammable liquid and vapour.
	H304	May be fatal if swallowed and enters airways.
	H315	Causes skin irritation.
	H318	Causes serious eye damage
	H336	May cause drowsiness or dizziness.
	H361fd	Suspected of damaging fertility or the unborn child.
	H373	May cause damage to organs through prolonged or repeated exposure
	H412	Harmful to aquatic life with long-lasting effects.

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Precautionary

Statements:	P202	Do not handle until all safety precautions have been read and understood.
	P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
	P260	Do not breathe vapours.
	P273	Avoid release to the environment.
	P280	Wear protective gloves/protective clothing/eye protection/face protection.
	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.
	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 a POISON CENTER/doctor.
	P403+P235	Store in a well-ventilated place. Keep cool.
	P501	Dispose of contents/container in accordance with local/national regulations.

2.3 Other hazards: No data available.

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.2 Mixtures:

Hazardous components

Chemical Name	CAS No./ EC No./ Reg. No	Classification (1272/2008/EC)	Content
TOLUENE	108-88-3 203-625-9 01-2119471310-51-xxxx	Flam. Liq. 2; H225 Asp. Tox. 1; H304 Skin Irrit. 2; H315 STOT SE3; H336 Repr. 2; H361fdi STOT RE2; H373i	25-35%
ACETONE	67-64-1 200-662-2 01-2119471330-49-xxxx	Flam.Liq. 2; H225 Eye Irrit. 2; H319 STOT SE3; H336 EUH066	15-25%
PROPAN-2-OL	67-63-0 200-661-7 01-2119457558-25-xxxx	Flam. Liq.2; H225 Eye Irrit.2; H319 STOT SE3; H336	10-20%
HYDROCARBONS, C9-C11, n-ALKANES, ISOALKANES, CYCLICS, <2% AROMATICS	64742-48-9 919-857-5 01-2119463258-33-xxxx	Flam. Liq. 3; H226 Asp. Tox. 1; H304 STOT SE3; H336 EUH066	10-20%
4-NONYLPHENOL BRANCHED, ETHOXYLATED	127087-87-0 - -	Ac.Tox.4; H302+H332 Eye.Dam.1; H318 Aq.Chron.2; H411	1-5%

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 immediate medical advice.

4.1 Description of first aid measures (continued)

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 eye damage. May cause irritation to skin with prolonged or repeated contact.

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: 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.

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

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Control parameters

Chemical name	8hr TWA	15min STEL	Reference
Toluene	191 mg/m ³ /50 ppm	284 mg/m ³ /100 ppm	(Sk) EH40/2005
Acetone	1210 mg/m ³ /500 ppm	3620 mg/m ³ /1500ppm	EH40/2005
Propan-2-ol	999 mg/m ³ /400 ppm	1250 mg/m ³ /500 ppm	EH40/2005
Hydrocarbons, C9-C11, n-Alkanes, Isoalkanes, Cyclics, <2% aromatics	1000 mg/m ³ /150 ppm	-	UK SIA

DNEL:

Area of application	Exposure route	Toluene	Acetone	Propan-2-ol	Hydrocarbons, C9-C11, n-Alkanes, Isoalkanes, Cyclics, <2% aromatics
Consumer	Inhalation-Long term systemic effects	56.5 mg/kg/day	200 mg/m ³	-	900 mg/m ³
Consumer	Dermal-Long term systemic effects	226 mg/kg/day	62 mg/kg/bw/day	319 mg/kg/bw/day	300 mg/kg
Consumer	Oral-Long term systemic effects	-	62 mg/kg/bw/day	-	-
Workers	Inhalation-Short term systemic effects	-	2420 mg/m ³	-	-
Workers	Inhalation-Long term systemic effects	192 mg/kg/day	1210 mg/m ³	500 mg/m ³	1500 mg/m ³
Workers	Dermal-Long term systemic effects	180 mg/kg/day	186 mg/kg/bw/day	888 mg/kg/bw/day	300 mg/kg

PNEC:

Environment	Toluene	Acetone
Aquatic Compartment		
Fresh water	0.68 mg/l	10.6 mg/l
Marine water	-	1.06 mg/l
Water-intermittent (sporadic) release	-	21 mg/l
Dry Sediment – fresh water	16.39 mg/kg	30.4 mg/kg
Dry Sediment – marine water	-	3.04 mg/kg
Terrestrial Compartment		
Dry soil	2.89 mg/kg	33.3 mg/kg
Sewage treatment plant	13.61 mg/l	100 mg/l

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

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

Personal protective equipment

8.2 Exposure controls (continued)

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. "Sk" noted above means can be absorbed through skin.

Eye protection: Tightly-fitting safety goggles.

Skin and body protection: Protective overalls.

Hygiene measures: Handle in accordance with good industrial hygiene and safety practices.

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	Colourless liquid
Odour	Characteristic
Odour Threshold	No data available
Flammability	Flammable
Flash point	Between -18°C to 23°C (estimated)
Lower explosion limit	0.8%
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	Not determined
pH	Not applicable
Melting point/range	No data available
Boiling point/range	No data available
Relative density	~0.8
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	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.

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11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity

Chemical name	Oral (LD50)	Inhalation (LC50)	Dermal (LD50)
TOLUENE	636 mg/kg (Rat)	12,500-28,800 mg/m ³ (Rat)	12,196 mg/kg
ACETONE	5800 mg/kg (Rat)	>50100 mg/m ³ (Rat)	7426 mg/kg (Guinea pig)
PROPAN-2-OL	>2000 mg/kg (Rat)	No data available	>2000 mg/kg (Rabbit)
HYDROCARBONS, C9-C11, n-ALKANES, ISOALKANES, CYCLICS, <2% AROMATICS	>5000 mg/kg (Rat)	No data available	>3000 mg/kg (Rabbit)
4-NONYLPHENOL BRANCHED, ETHOXYLATED	960-3980 mg/kg (Rat)	1.15 mg/l (Rat 4h dust/mist)	2000-2991 mg/kg (Rabbit)

Skin corrosion/irritation:	Irritating to skin.
Serious eye damage/eye irritation:	May cause eye damage.
Respiratory or skin sensitisation:	Not classed as a skin sensitiser.
Repeated dose toxicity:	May cause damage to organs through prolonged or repeated exposure (by inhalation).
Carcinogenicity:	Not carcinogenic.
Mutagenicity:	Not mutagenic.
Toxicity for reproduction:	Toluene is suspected of damaging fertility or the unborn child.
Specific target organ toxicity (STOT):	May cause drowsiness or dizziness.
Further information	May be fatal if swallowed and product is aspirated into airways following vomiting.

12. ECOLOGICAL INFORMATION

12.1 Toxicity

Chemical name	Species	Test	Value
TOLUENE	Daphnia	EC50 24h	8mg/l
	Rainbow trout	LC50 96h	7.63mg/l
	Algae	EC50 24h	245mg/l
ACETONE	Daphnia	EC50 48h	8800 mg/l
	Rainbow trout	LC50 96h	5540 mg/l
	Algae	NOEC 8h	530 mg/l
PROPAN-2-OL	Daphnia	EC50 48h	>100 mg/l
	Golden ide	LC50 48h	>100 mg/l
	Algae	EC50 72h	>100 mg/l
HYDROCARBONS, C9-C11, n-ALKANES, ISOALKANES, CYCLICS, <2% AROMATICS	Daphnia	LL/EL/IL50	Expected to be not toxic at limit of water solubility
	Fish	LL/EL/IL50	
	Algae	LL/EL/IL50	
4-NONYLPHENOL BRANCHED, ETHOXYLATED	Daphnia	LC50 48h	9.3-21.4 mg/l
	Fathead minnow	LC50 96h	3.8-6.2 mg/l
	Bacteria	IC50 16h	>1000 mg/l

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12.2 Persistence and degradability	Expected to be mainly biodegradable.
12.3 Bioaccumulative potential	The hydrocarbon solvent has the potential for bioaccumulation. 4-Nonylphenol branched, ethoxylated: Bioconcentration Factor (BCF): 5.9-48 (Fish, estimated) Partition coefficient: n-octanol/water (logPow): 2.1-3.4, calculated
12.4 Mobility in soil	Partially soluble in water.
12.5 Results of PBT and vPvB assessment	Not considered to be PBT or vPvB.
12.6 Other adverse effects	May cause long-lasting harmful effects in the aquatic environment.

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.

14. TRANSPORT INFORMATION

14.1 UN number:	1993
14.2 UN proper shipping name:	FLAMMABLE LIQUID, N.O.S (Contains Toluene, Acetone)
14.3 Transport hazard class(es):	Class: 3
Transport labels:	
14.4 Packing Group:	II
14.5 Environment hazards:	Marine Pollutant: No
14.6 Special precautions for user:	EMS: F-E, S-E Tunnel restriction code: (D/E)
14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code:	Not applicable.

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. Regulation EU 453/2010 amending Regulation (EC) No 1907/2006.

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

H225 Highly flammable liquid and vapour.
H226 Flammable liquid and vapour.
H302 Harmful if swallowed.
H304 May be fatal if swallowed and enters airways
H315 Causes skin irritation
H318 Causes serious eye damage.
H319 Causes serious eye irritation.
H332 Harmful if inhaled.
H336 May cause drowsiness or dizziness
H361fd Suspected of damaging fertility or the unborn child.
H373 May cause damage to organs through prolonged or repeated exposure
H411 Toxic to aquatic life with long-lasting effects
H412 Harmful to aquatic life with long-lasting effects.
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 3 and 11).
DNEL: Derived No Effect Level (Section 8).
PNEC: Predicted No Effect Concentration (Section 8).
PBT: Persistent, Bioaccumulative, Toxic. (Section 12).
vPvB: very Persistent and very Bioaccumulative. (Section 12).
EC50: Effective Concentration, 50 percent. (Section 12).
LC50: Lethal Concentration, 50 percent. (Section 11/12).
LD50: Lethal Dose, 50 percent. (Section 11).

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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