

1. IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND OF THE COMPANY / UNDERTAKING**1.1 Product Identifier**Material name : Diesel 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; STOT SE3; H336; Repr.2; H361fd ; Lact.; H362
Environment Aq.Chron.2; H411**2.2 Label elements**

Labelling according to EC Directives: 1272/2008/EC

Signal word: Danger

Pictogram(s):

Contains: Hydrocarbons, C9-C11, n-Alkanes, Isoalkanes, Cyclics, <2% aromatics,
Toluene, Xylene, C14-17 Chlorinated paraffin

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.
H361fd	Suspected of damaging fertility or the unborn child.
H362	May cause harm to breast-fed children.
H411	Toxic to aquatic life with long-lasting effects.

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.
P261	Avoid breathing vapours.
P273	Avoid release to the environment.

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Precautionary

Statements (continued): 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
 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: 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
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	60-70%
HEAVY PARAFFIN DISTILLATES, HYDROTREATED (PETROLEUM), UNSPECIFIED BASE OIL	64742-54-7 265-157-1 01-2119484627-25-0034	Not classified but has a WEL, see Section 8	15-20%
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	5-10%
XYLENE	1330-20-7 215-535-7 01-2119488216-32-xxxx	Flam. Liq. 3; H226 Acute Tox.4; H312, H332 Skin Irrit. 2; H315	5-10%
4-NONYLPHENOL BRANCHED, ETHOXYLATED	127087-87-0 - -	Ac.Tox.4; H302+H332 Eye.Dam.1; H318 Aq.Chron.2; H411	1-2%
C14-17 CHLORINATED PARAFFIN	85535-85-9 287-477-0 01-2119519269-33-xxxx	Lact.; H362 Aq.Acute 1; H400 (M=100) Aq.Chron.1; H410 (M=10) EUH066	1-2%

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 with prolonged or repeated contact.

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.

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8. EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Control parameters

Chemical name	8hr TWA	15min STEL	Reference
Hydrocarbons, C9-C11, n-Alkanes, Isoalkanes, Cyclics, <2% aromatics	1000 mg/m ³ /150 ppm	-	UK SIA
Heavy paraffin distillates, hydrotreated (petroleum); unspecified base oil	5 mg/m ³	10 mg/m ³	Supplier
Toluene	191 mg/m ³ /50 ppm	284 mg/m ³ /100 ppm	(Sk) EH40/2005
Xylene	220 mg/m ³ /50 ppm	441 mg/m ³ /100 ppm	(Sk) EH40/2005

DNEL:

DNEL (workers)	Hydrocarbons, C9-C11, n-Alkanes, Isoalkanes, Cyclics, <2% aromatics	Toluene	Xylene	Reference
Chronic systemic effects (dermal)	300 mg/kg	180 mg/kg/day	180 mg/kg/day	Manufacturer
Chronic systemic effects (inhalation)	1500 mg/m ³	192 mg/kg/day	77 mg/kg/day	Manufacturer

DNEL (consumers)	Hydrocarbons, C9-C11, n-Alkanes, Isoalkanes, Cyclics, <2% aromatics	Toluene	Xylene	Reference
Chronic systemic effects (dermal)	300 mg/kg	226 mg/kg/day	108 mg/kg/day	Manufacturer
Chronic local effects (inhalation)	900 mg/m ³	56.5 mg/kg/day	14.8 mg/kg/day	Manufacturer

PNEC:

Environment	Toluene	Xylene
Aquatic Compartment		
Fresh water	0.68 mg/l	0.327 mg/l
Marine water	-	0.327 mg/l
Water-intermittent (sporadic) release	-	6.58 mg/l
Dry Sediment – fresh water	16.39 mg/kg	12.46 mg/kg
Dry Sediment – marine water	-	12.46 mg/kg
Terrestrial Compartment		
Dry soil	2.89 mg/kg	2.31 mg/kg
Sewage treatment plant	13.61 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

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.

8.2 Exposure controls (continued)

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 – pale yellow liquid
Odour	Characteristic
Odour Threshold	No data available
Flammability	Flammable
Flash point	Between -18°C to 23°C (estimated)
Lower explosion limit	0.6%
Upper explosion limit	7.1%
Explosive properties	Not explosive
Thermal decomposition	No data available
Auto-ignition temperature	No data available
Oxidising properties	Non-oxidising
Solubility in water	Insoluble
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)
HYDROCARBONS, C9-C11, n-ALKANES, ISOALKANES, CYCLICS, <2% AROMATICS	>5000 mg/kg (Rat)	No data available	>3000 mg/kg (Rabbit)
HEAVY PARAFFIN DISTILLATES, HYDROTREATED (PETROLEUM); UNSPECIFIED BASE OIL	>5000 mg/kg (Rat)	>5.53 mg/l (Rat)	>5000 mg/kg (Rabbit)
TOLUENE	636 mg/kg (Rat)	12,500-28,800 mg/m ³ (Rat)	12,196 mg/kg
XYLENE	5251 mg/kg (Mouse)	5000 ppm (Rat) 4h	>1700 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)
C14-17 CHLORINATED PARAFFIN	>2g/kg (Rat)	No data available	No data available

Skin corrosion/irritation:	Irritating to skin.
Serious eye damage/eye irritation:	May be irritating to eyes.
Respiratory or skin sensitisation:	Not classed as a skin sensitiser.
Repeated dose toxicity:	No data available.
Carcinogenicity:	Not carcinogenic.
Mutagenicity:	Not mutagenic.
Toxicity for reproduction:	Toluene is suspected of damaging fertility or the unborn child. Exposure to C14-17 Chlorinated paraffin may cause harm to breast-fed children.
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
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	
HEAVY PARAFFIN DISTILLATES, HYDROTREATED (PETROLEUM); UNSPECIFIED BASE OIL	Daphnia	EC50 48h	>10,000 mg/l
	Fathead minnow	LC50 96h	>100 mg/l
	Algae	EC50 72h	>100 mg/l
TOLUENE	Daphnia	EC50 24h	8mg/l
	Rainbow trout	LC50 96h	7.63mg/l
	Algae	EC50 24h	245mg/l
XYLENE	Daphnia	EC50 24h	3.82 mg/l
	Rainbow trout	LC50 96h	2.6 mg/l
	Algae	EC50 24h	4.63 mg/l
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
C14-17 CHLORINATED PARAFFIN (Acute M-Factor = 100; Chronic M-Factor = 10)	Daphnia	EC50 48h	0.006mg/l
	Fish (Albrnus alburnus)	LC50 96h	>5000 mg/l
	Algae	LC50 96h	>3.2 mg/l

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12.2 Persistence and degradability	Expected to be 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. C14-17 Chlorinated paraffin: limited potential for bioaccumulation; BCF<2000 l/kg.
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 Other adverse effects	Toxic to aquatic organisms with long-lasting effects.

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:	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 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
H312	Harmful in contact with skin.
H315	Causes skin irritation
H318	Causes serious eye damage.
H332	Harmful if inhaled.
H336	May cause drowsiness or dizziness
H361fd	Suspected of damaging fertility or the unborn child.
H362	May cause harm to breast-fed children.
H373	May cause damage to organs through prolonged or repeated exposure
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long-lasting effects.
H411	Toxic 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).

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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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