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

1.1 Product Identifier

Material name : : 5L Maintenance Fluid
Product code : : HRM0290
UFI Code : : 2UMC-M0Q0-7005-9PEW

1.2 Relevant identified uses of the substance or mixture and uses advised against

Product use : Solvent/lubricant

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	Flam.Liq.3; H226
Human health	Asp. Tox.1; H304; STOT SE3; H336; EUH066
Environment	Not classified

2.2 Label elements
Labelling according to EC Directives: 1272/2008/EC:
Signal word: Danger **Contains:** Hydrocarbons, C9-C11, n-Alkanes, Isoalkanes, Cyclics, <2% aromatics
Hazard pictogram(s):

Hazard Statements:	H226	Flammable liquid and vapour.
	H304	May be fatal if swallowed and enters airways.
	H336	May cause drowsiness or dizziness.
Supplementary Hazard Statements	EUH066	Repeated exposure may cause skin dryness or cracking.
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.

Precautionary Statements (continued):

P301+P310	IF SWALLOWED: Immediately call a POISON CENTER/doctor.
P331	Do NOT induce vomiting.
P302+P352	IF ON SKIN: Wash with soap and water.
P403+P233	Store in a well-ventilated place. Keep container tightly closed.
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./ Index No./ Reg. No	Classification (1272/2008/EC)	SCL/ M-Factor/ ATE	Content
HYDROCARBONS, C9-C11, n-ALKANES, ISOALKANES, CYCLICS, <2% AROMATICS	64742-48-9 919-857-5 01-2119463258-33	Flam. Liq. 3; H226 Asp. Tox. 1; H304 STOT SE3; H336 EUH066	No relevant data.	80-90%
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	No relevant data.	5-10%
PROPAN-2-OL	67-63-0 200-661-7 603-117-00-0 01-2119457558-25	Flam. Liq.2; H225 Eye Irrit.2; H319 STOT SE3; H336	No relevant data.	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 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. Remove to fresh air. Seek medical advice.

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

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Control parameters

Occupational exposure limit values

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
Propan-2-ol	999 mg/m^3/400 ppm	1250 mg/m^3/500 ppm	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)	Hydrocarbons, C9-C11, n-Alkanes, Isoalkanes, Cyclics, <2% aromatics	Propan-2-ol
Chronic systemic effects (dermal)	300 mg/kg	888 mg/kg bw/day
Chronic systemic effects (inhalation)	1500 mg/m^3	500 mg/m^3

DNEL (consumers)	Hydrocarbons, C9-C11, n-Alkanes, Isoalkanes, Cyclics, <2% aromatics	Propan-2-ol
Chronic systemic effects (dermal)	300 mg/kg	319 mg/kg bw/day
Chronic systemic effects (inhalation)	900 mg/m^3	89 mg/m^3
Chronic systemic effects (oral)	300 mg/kg	26 mg/kg bw/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 ≥ 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	Pale brown
Odour	Fragranced
Melting point/freezing point	No data available
Boiling point/range	No data available
Flammability	Flammable
Lower/Upper explosion limit	0.6% / 12.0%
Flash point	>40ºC
Auto-ignition temperature	No data available
Decomposition temperature	No data available
pH	No data available
Kinematic viscosity	<20.5 mm^2/s @ 40ºC
Solubility	Partially soluble in water
Partition coefficient: n-octanol/water	Not applicable for mixtures
Vapour pressure	No data available
Density	~0.8
Relative vapour density	No data available
Particle characteristics	Not applicable

9.2 Other information: VOC Content: 94.6%

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, 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)
Propan-2-ol	>5000 mg/kg (Rat)	No data available.	>5000 mg/kg (Rabbit)

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

Skin corrosion/irritation: Based on available data, the classification criteria are not met.

Serious eye damage/eye 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.

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: 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. Tox.1, H304: May be fatal if swallowed and enters airways.

11.2 Information on other hazards Supplementary classification: EUH066: Repeated exposure may cause skin dryness or cracking.

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, C9-C11, n-Alkanes, Isoalkanes, Cyclics, <2% aromatics	Daphnia Fish Algae	LL/EL/IL50 LL/EL/IL50 LL/EL/IL50	Expected to be not toxic at limit of water solubility
Heavy paraffin distillates, hydrotreated (petroleum); unspecified base oil	Daphnia Fathead minnow Algae	EC50 48h LC50 96h EC50 72h	>10,000 mg/l >100 mg/l >100 mg/l
Propan-2-ol	Daphnia Golden ide Algae	EC50 48h LC50 48h EC50 72h	>100 mg/l >100 mg/l >100 mg/l

12.1 Toxicity Based on available data, the classification criteria are not met.

12.2 Persistence and degradability Expected to be biodegradable.

12.3 Bioaccumulative potential The hydrocarbon solvent has the potential for bioaccumulation.

12.4 Mobility in soil Partially miscible with 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. 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
(Hydrocarbons, C9-C11, n-Alkanes, Isoalkanes, Cyclics, <2% aromatics)

14.3 Transport hazard class(es): Class: 3
Transport labels:

14.4 Packing Group: III

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 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:	Not classified.

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

H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H304	May be fatal if swallowed and enters airways.
H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.
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.

[final page]