



# SAFETY DATA SHEET

## SECTION 1: Identification of the substance/mixture and of the company/undertaking

### 1.1. Product identifier

Trade name or designation of the mixture	Comma Petrol Magic
Registration number	-
Synonyms	None.
Product code	PEM400M
Issue date	09-December-2022
Version number	09
Revision date	09-December-2022
Supersedes date	16-November-2022

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

Identified uses	Fuel additive
Uses advised against	None known.

### 1.3. Details of the supplier of the safety data sheet

#### Supplier

Company name	Moove Lubricants Ltd.
Address	Comma Oil & Chemicals Marketing B.V Moove Lubricants Netherlands Herikerbergweg 238, 1101CM, Amsterdam NL
Division	
Telephone	Telephone + 31208083061
e-mail	technical@uk.moovelub.com
Contact person	Not available.

### 1.4. Emergency telephone number

Asia Pacific	+ (1) 760 476 3960
China	+ (86) 4001 2001 74
Europe	+ (44) 8 08 189 0979
Middle East/Africa	+ (1) 760 476 3959
Ireland National Poisons Info	+353 1 809 2566
Healthcare professionals-24/7 (public, 8am - 10pm, 7/7)	+353 1 809 2166
Access Code	334498

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

The mixture has been assessed and/or tested for its physical, health and environmental hazards and the following classification applies.

#### Classification according to Regulation (EC) No 1272/2008 as amended

Health hazards		
Aspiration hazard	Category 1	H304 - May be fatal if swallowed and enters airways.

**Hazard summary** May be fatal if swallowed and enters airways. Occupational exposure to the substance or mixture may cause adverse health effects.

### 2.2. Label elements

## UFI

Austria: 4S00-E0VE-3005-CDGC  
 Belgium: 4S00-E0VE-3005-CDGC  
 Bulgaria: 4S00-E0VE-3005-CDGC  
 Cyprus: 4S00-E0VE-3005-CDGC  
 Czech Republic: 4S00-E0VE-3005-CDGC  
 Denmark: 4S00-E0VE-3005-CDGC  
 Estonia: 4S00-E0VE-3005-CDGC  
 EU: 4S00-E0VE-3005-CDGC  
 Finland: 4S00-E0VE-3005-CDGC  
 France: 4S00-E0VE-3005-CDGC  
 Germany: 4S00-E0VE-3005-CDGC  
 Greece: 4S00-E0VE-3005-CDGC  
 Hungary: 4S00-E0VE-3005-CDGC  
 Iceland: 4S00-E0VE-3005-CDGC  
 Italy: 4S00-E0VE-3005-CDGC  
 Latvia: 4S00-E0VE-3005-CDGC  
 Lithuania: 4S00-E0VE-3005-CDGC  
 Luxembourg: 4S00-E0VE-3005-CDGC  
 Malta: 4S00-E0VE-3005-CDGC  
 Netherlands: 4S00-E0VE-3005-CDGC  
 Norway: 4S00-E0VE-3005-CDGC  
 Poland: 4S00-E0VE-3005-CDGC  
 Portugal: 4S00-E0VE-3005-CDGC  
 Romania: 4S00-E0VE-3005-CDGC  
 Slovakia: 4S00-E0VE-3005-CDGC  
 Slovenia: 4S00-E0VE-3005-CDGC  
 Spain: 4S00-E0VE-3005-CDGC  
 Sweden: 4S00-E0VE-3005-CDGC  
 UK: 4S00-E0VE-3005-CDGC

## Contains:

Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, &lt;2% aromatics

## Hazard pictograms



## Signal word

Danger

## Hazard statements

H304

May be fatal if swallowed and enters airways.

## Precautionary statements

## Prevention

P102

Keep out of reach of children.

## Response

P301 + P310

IF SWALLOWED: Immediately call a POISON CENTRE/doctor.

P331

Do NOT induce vomiting.

## Storage

P405

Store locked up.

## Disposal

P501

Dispose of contents/container in accordance with local/regional/national/international regulations.

## Supplemental label information

EUH066 - Repeated exposure may cause skin dryness or cracking.

## 2.3. Other hazards

Not a PBT or vPvB substance or mixture.

## SECTION 3: Composition/information on ingredients

## 3.2. Mixtures

## General information

Chemical name	%	CAS-No. / EC No.	REACH Registration No.	Index No.	Notes
Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, <2% aromatics	90 - 100		01-2119456620-43	649-422-00-2	
<b>Classification:</b>	Asp. Tox. 1;H304, Aquatic Chronic 2;H411				

Chemical name	%	CAS-No. / EC No.	REACH Registration No.	Index No.	Notes
1-propene, 2-methyl-, Homopolymer, Hydroformylation Products, Reaction Products With Ammonia	1 - < 3	337367-30-3 -	Polymer	-	
<b>Classification:</b>	Skin Irrit. 2;H315, Aquatic Chronic 3;H412				
Other components below reportable levels	1 - < 3				

#### List of abbreviations and symbols that may be used above

#: This substance has been assigned Union workplace exposure limit(s).

M: M-factor

PBT: persistent, bioaccumulative and toxic substance.

vPvB: very persistent and very bioaccumulative substance.

All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

**Composition comments** The full text for all H-statements is displayed in section 16.

## SECTION 4: First aid measures

**General information** Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

### 4.1. Description of first aid measures

**Inhalation** Move to fresh air. Call a physician if symptoms develop or persist.

**Skin contact** Wash off with soap and water. Get medical attention if irritation develops and persists.

**Eye contact** Rinse with water. Get medical attention if irritation develops and persists.

**Ingestion** Call a physician or poison control centre immediately. Rinse mouth. Do not induce vomiting. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs.

**4.2. Most important symptoms and effects, both acute and delayed** Aspiration may cause pulmonary oedema and pneumonitis.

**4.3. Indication of any immediate medical attention and special treatment needed** Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed.

## SECTION 5: Firefighting measures

**General fire hazards** No unusual fire or explosion hazards noted.

### 5.1. Extinguishing media

**Suitable extinguishing media** Water fog. Foam. Dry chemical powder. Carbon dioxide (CO<sub>2</sub>).

**Unsuitable extinguishing media** Do not use water jet as an extinguisher, as this will spread the fire.

**5.2. Special hazards arising from the substance or mixture** During fire, gases hazardous to health may be formed.

### 5.3. Advice for firefighters

**Special protective equipment for firefighters** Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

**Special fire fighting procedures** Move containers from fire area if you can do so without risk.

**Specific methods** Use standard firefighting procedures and consider the hazards of other involved materials.

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

**For non-emergency personnel** Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained.

**For emergency responders** Keep unnecessary personnel away.

**6.2. Environmental precautions** Avoid discharge into drains, water courses or onto the ground.

**6.3. Methods and material for containment and cleaning up** Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

Never return spills to original containers for re-use.

**SECTION 7: Handling and storage****7.1. Precautions for safe handling**

Avoid prolonged exposure. Provide adequate ventilation. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Observe good industrial hygiene practices.

**7.2. Conditions for safe storage, including any incompatibilities**

Store locked up. Store in original tightly closed container.

**7.3. Specific end use(s)**

Fuel additive

**SECTION 8: Exposure controls/personal protection****8.1. Control parameters****Occupational exposure limits****Belgium. Exposure Limit Values Components**

Components	Type	Value	Form
Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, <2% aromatics	TWA	200 mg/m3	Vapour.

**Bulgaria. OELs. Regulation No 13 on protection of workers against risks of exposure to chemical agents at work Components**

Components	Type	Value
Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, <2% aromatics	TWA	300 mg/m3

**Finland. Workplace Exposure Limits Components**

Components	Type	Value
Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, <2% aromatics	TWA	500 mg/m3

**Germany. DFG MAK List (advisory OELs). Commission for the Investigation of Health Hazards of Chemical Compounds in the Work Area (DFG)**

Components	Type	Value	Form
Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, <2% aromatics	TWA	5 mg/m3	Respirable aerosol fraction
		350 mg/m3	Vapour.
		50 ppm	Vapour.

**Lithuania. OELs. Limit Values for Chemical Substances, General Requirements Components**

Components	Type	Value
Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, <2% aromatics	STEL	500 mg/m3
	TWA	350 mg/m3

**Norway. Administrative Norms for Contaminants in the Workplace Components**

Components	Type	Value
Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, <2% aromatics	TLV	275 mg/m3
		40 ppm

**Poland. Ordinance of the Minister of Labour and Social Policy on 6 June 2014 on the maximum permissible concentrations and intensities of harmful health factors in the work environment, Journal of Laws 2014, item 817 Components**

Components	Type	Value
Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, <2% aromatics	STEL	300 mg/m3
	TWA	100 mg/m3

**Spain. Occupational Exposure Limits Components**

Type	Value
TWA	200 mg/m3

Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, <2% aromatics

**Sweden. OELs. Work Environment Authority (AV), Occupational Exposure Limit Values (AFS 2015:7)**

Components	Type	Value
Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, <2% aromatics	STEL	500 mg/m3
	TWA	350 mg/m3

**Switzerland. SUVA Grenzwerte am Arbeitsplatz Components**

Type	Value	Form
STEL	700 mg/m3	Vapour.
TWA	100 ppm	Vapour.
	5 mg/m3	Aerosol
	350 mg/m3	Vapour.
	50 ppm	Vapour.

Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, <2% aromatics

**Biological limit values** No biological exposure limits noted for the ingredient(s).

**Recommended monitoring procedures** Follow standard monitoring procedures.

**Derived no effect levels (DNELs)** Not available.

**Predicted no effect concentrations (PNECs)** Not available.

**8.2. Exposure controls**

**Appropriate engineering controls** Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

**Individual protection measures, such as personal protective equipment**

**General information** Personal protection equipment should be chosen according to the CEN standards and in discussion with the supplier of the personal protective equipment.

**Eye/face protection** Face shield is recommended. Wear safety glasses with side shields (or goggles).

**Skin protection**

**- Hand protection** Wear appropriate chemical resistant gloves. Suitable gloves can be recommended by the glove supplier.

**- Other** Wear appropriate chemical resistant clothing.

**Respiratory protection** In case of insufficient ventilation, wear suitable respiratory equipment.

**Thermal hazards** Wear appropriate thermal protective clothing, when necessary.

**Hygiene measures** Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

**Environmental exposure controls** Environmental manager must be informed of all major releases.

**SECTION 9: Physical and chemical properties****9.1. Information on basic physical and chemical properties****Appearance**

**Physical state** Liquid.

**Form** Liquid.

**Colour** Green.

**Odour** Characteristic.

**Odour threshold** Not available.

**pH** Not available.

**Melting point/freezing point** Not available.

Initial boiling point and boiling range	Not available.
Flash point	71,0 °C (159,8 °F)
Evaporation rate	Not available.
Flammability (solid, gas)	Not applicable.
<b>Upper/lower flammability or explosive limits</b>	
Flammability limit - lower (%)	Not available.
Flammability limit - upper (%)	Not available.
Vapour pressure	Not available.
Vapour density	Not available.
Relative density	Not available.
Relative density temperature	0,81
<b>Solubility(ies)</b>	
Solubility (water)	Not available.
Partition coefficient (n-octanol/water)	Not available.
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
Viscosity	Not available.
Explosive properties	Not explosive.
Oxidising properties	Not oxidising.

## 9.2. Other information

Kinematic viscosity	< 18,5 mm²/s (40 °C (104 °F))
<b>Thermal hazards</b>	
Relative self-ignition temperature	20 °C (68 °F)

## SECTION 10: Stability and reactivity

10.1. Reactivity	The product is stable and non-reactive under normal conditions of use, storage and transport.
10.2. Chemical stability	Material is stable under normal conditions.
10.3. Possibility of hazardous reactions	No dangerous reaction known under conditions of normal use.
10.4. Conditions to avoid	Avoid temperatures exceeding the flash point. Contact with incompatible materials.
10.5. Incompatible materials	Strong oxidising agents.
10.6. Hazardous decomposition products	No hazardous decomposition products are known.

## SECTION 11: Toxicological information

General information	Occupational exposure to the substance or mixture may cause adverse effects.
---------------------	--

### Information on likely routes of exposure

Inhalation	Prolonged inhalation may be harmful.
Skin contact	No adverse effects due to skin contact are expected.
Eye contact	Direct contact with eyes may cause temporary irritation.
Ingestion	Droplets of the product aspirated into the lungs through ingestion or vomiting may cause a serious chemical pneumonia.

Symptoms	Aspiration may cause pulmonary oedema and pneumonitis.
----------	--

### 11.1. Information on toxicological effects

Acute toxicity	May be fatal if swallowed and enters airways.
----------------	---

Product	Species	Test Results
Comma Petrol Magic		
<b>Acute</b>		
<b>Dermal</b>		
LD50	Rabbit	104300 mg/kg, 24 Hours

Product	Species	Test Results
<b>Inhalation</b>		
LC50	Rat	7143 mg/l, 8 Hours
<b>Oral</b>		
LD50	Rat	469400 mg/kg
Components	Species	Test Results
Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, <2% aromatics		
<b>Acute</b>		
<b>Dermal</b>		
LD50	Rabbit	> 2000 mg/kg
<b>Oral</b>		
LD50	Rat	> 5000 mg/kg

\* Estimates for product may be based on additional component data not shown.

<b>Skin corrosion/irritation</b>	Due to partial or complete lack of data the classification is not possible.
<b>Serious eye damage/eye irritation</b>	Due to partial or complete lack of data the classification is not possible.
<b>Respiratory sensitisation</b>	Due to partial or complete lack of data the classification is not possible.
<b>Skin sensitisation</b>	Due to partial or complete lack of data the classification is not possible.
<b>Germ cell mutagenicity</b>	Due to partial or complete lack of data the classification is not possible.
<b>Carcinogenicity</b>	Due to partial or complete lack of data the classification is not possible.

**Hungary. 26/2000 EüM Ordinance on protection against and preventing risk relating to exposure to carcinogens at work (as amended)**

Not listed.

<b>Reproductive toxicity</b>	Due to partial or complete lack of data the classification is not possible.
<b>Specific target organ toxicity - single exposure</b>	Due to partial or complete lack of data the classification is not possible.
<b>Specific target organ toxicity - repeated exposure</b>	Due to partial or complete lack of data the classification is not possible.
<b>Aspiration hazard</b>	May be fatal if swallowed and enters airways.
<b>Mixture versus substance information</b>	No information available.
<b>Other information</b>	Not available.

## SECTION 12: Ecological information

<b>12.1. Toxicity</b>	Based on available data, the classification criteria are not met for hazardous to the aquatic environment.
-----------------------	--

Components	Species	Test Results
Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, <2% aromatics		
<b>Aquatic</b>		
Fish	LC50 Rainbow trout, donaldson trout (Oncorhynchus mykiss)	2,9 mg/l, 96 hours

\* Estimates for product may be based on additional component data not shown.

<b>12.2. Persistence and degradability</b>	No data is available on the degradability of this product.
<b>12.3. Bioaccumulative potential</b>	No data available.
<b>Partition coefficient n-octanol/water (log Kow)</b>	Not available.
<b>Bioconcentration factor (BCF)</b>	Not available.
<b>12.4. Mobility in soil</b>	No data available.
<b>12.5. Results of PBT and vPvB assessment</b>	Not a PBT or vPvB substance or mixture.
<b>12.6. Other adverse effects</b>	No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

<b>Residual waste</b>	Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).
<b>Contaminated packaging</b>	Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.
<b>EU waste code</b>	The Waste code should be assigned in discussion between the user, the producer and the waste disposal company.
<b>Disposal methods/information</b>	Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Dispose of contents/container in accordance with local/regional/national/international regulations.
<b>Special precautions</b>	Dispose in accordance with all applicable regulations.

## SECTION 14: Transport information

### ADR

14.1. - 14.6.: Not regulated as dangerous goods.

### RID

14.1. - 14.6.: Not regulated as dangerous goods.

### ADN

14.1. - 14.6.: Not regulated as dangerous goods.

### IATA

14.1. - 14.6.: Not regulated as dangerous goods.

### IMDG

14.1. - 14.6.: Not regulated as dangerous goods.

**14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code** Not established.

## SECTION 15: Regulatory information

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

#### EU regulations

**Regulation (EC) No. 1005/2009 on substances that deplete the ozone layer, Annex I and II, as amended**

Not listed.

**Regulation (EC) No. 850/2004 On persistent organic pollutants, Annex I as amended**

Not listed.

**Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 1 as amended**

Not listed.

**Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 2 as amended**

Not listed.

**Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 3 as amended**

Not listed.

**Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex V as amended**

Not listed.

**Regulation (EC) No. 166/2006 Annex II Pollutant Release and Transfer Registry, as amended**

Not listed.

**Regulation (EC) No. 1907/2006, REACH Article 59(10) Candidate List as currently published by ECHA**

Not listed.



UFI

Austria: 4S00-E0VE-3005-CDGC  
Belgium: 4S00-E0VE-3005-CDGC  
Bulgaria: 4S00-E0VE-3005-CDGC  
Cyprus: 4S00-E0VE-3005-CDGC  
Czech Republic: 4S00-E0VE-3005-CDGC  
Denmark: 4S00-E0VE-3005-CDGC  
Estonia: 4S00-E0VE-3005-CDGC  
EU: 4S00-E0VE-3005-CDGC  
Finland: 4S00-E0VE-3005-CDGC  
France: 4S00-E0VE-3005-CDGC  
Germany: 4S00-E0VE-3005-CDGC  
Greece: 4S00-E0VE-3005-CDGC  
Hungary: 4S00-E0VE-3005-CDGC  
Iceland: 4S00-E0VE-3005-CDGC  
Italy: 4S00-E0VE-3005-CDGC  
Latvia: 4S00-E0VE-3005-CDGC  
Lithuania: 4S00-E0VE-3005-CDGC  
Luxembourg: 4S00-E0VE-3005-CDGC  
Malta: 4S00-E0VE-3005-CDGC  
Netherlands: 4S00-E0VE-3005-CDGC  
Norway: 4S00-E0VE-3005-CDGC  
Poland: 4S00-E0VE-3005-CDGC  
Portugal: 4S00-E0VE-3005-CDGC  
Romania: 4S00-E0VE-3005-CDGC  
Slovakia: 4S00-E0VE-3005-CDGC  
Slovenia: 4S00-E0VE-3005-CDGC  
Spain: 4S00-E0VE-3005-CDGC  
Sweden: 4S00-E0VE-3005-CDGC  
UK: 4S00-E0VE-3005-CDGC

Authorisations

Regulation (EC) No. 1907/2006, REACH Annex XIV Substances subject to authorization, as amended

Not listed.

Restrictions on use

Regulation (EC) No. 1907/2006, REACH Annex XVII Substances subject to restriction on marketing and use as amended

Not listed.

Directive 2004/37/EC: on the protection of workers from the risks related to exposure to carcinogens and mutagens at work, as amended.

Not listed.

Other EU regulations

Directive 2012/18/EU on major accident hazards involving dangerous substances, as amended

Not listed.

Other regulations

The product is classified and labelled in accordance with EC directives or respective national laws. Pregnant women should not work with the product, if there is the least risk of exposure. This Safety Data Sheet complies with the requirements of Regulation (EC) No 1907/2006, as amended.

National regulations

Follow national regulation for work with chemical agents. Young people under 18 years old are not allowed to work with this product according to EU Directive 94/33/EC on the protection of young people at work, as amended.

15.2. Chemical safety assessment

No Chemical Safety Assessment has been carried out.

SECTION 16: Other information

List of abbreviations

Not available.

References

Not available.

Information on evaluation method leading to the classification of mixture

The classification for health and environmental hazards is derived by a combination of calculation methods and test data, if available.

Full text of any H-statements not written out in full under Sections 2 to 15

H304 May be fatal if swallowed and enters airways.  
H315 Causes skin irritation.  
H411 Toxic to aquatic life with long lasting effects.  
H412 Harmful to aquatic life with long lasting effects.

Revision information

Product and Company Identification: Product and Company Identification  
Composition / Information on Ingredients: Ingredients  
Physical & Chemical Properties: Multiple Properties

**Training information**

Follow training instructions when handling this material.

**Disclaimer**

Moove Lubricants Ltd. cannot anticipate all conditions under which this information and its product, or the products of other manufacturers in combination with its product, may be used. It is the user's responsibility to ensure safe conditions for handling, storage and disposal of the product, and to assume liability for loss, injury, damage or expense due to improper use. The information in the sheet was written based on the best knowledge and experience currently available.