

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 Diesel Magic	
Registration number	-	
Synonyms	None.	
Product code	DIM400M	
Issue date	26-December-2018	
Version number	06	
Revision date	26-December-2018	
1.2. Relevant identified uses of t Identified uses	he substance or mixture and uses advised against Fuel additive	
Uses advised against	None known.	
1.3. Details of the supplier of the safety data sheet		
	Manufactured by Moove Lubricants	
Address	Dering Way, Gravesend, Kent DA12 2QX	
Telephone	+44 (0) 1474 564 311	
Address	Operations Plant Dering Way, Gravesend, Kent DA12 2QX	
Telephone	+44 (0) 1474 564 311	
Email	technical@uk.moovelub.com	
1.4. Emergency telephone		
Asia Pacific	+ (1) 760 476 3960	
China	+ (86) 4001 2001 74	
Europe	+ (44) 8 08 189 0979	
Middle East/Africa	+ (1) 760 476 3959	
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.	
2.2. Label elements		
Label according to Regulation (EC) No. 1272/2008 as amended	
Contains:	Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, <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/doct	or.

Deci			
P331	Do NOT induce vomiting.		
Storage			
P405	Store locked up.		
Disposal			
P501	Dispose of waste and residues in accordance with local authority requirements.		
Supplemental label information			
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-all isoalkanes, cyclics, <2% arom			
Classification: Asp	p. Tox. 1;H304		
2-Ethylhexyl nitrate	1 - < 3 27247-96-7 2119539586-27 - 248-363-6		
Classification: Acu	ute Tox. 4;H302, Acute Tox. 4;H312, Acute Tox. 4;H332, Aquatic Chronic 2;H411		
Other components below repo	ortable < 1		
	ale that may be used above		
List of abbreviations and symbo	ussigned Union workplace exposure limit(s).		
M: M-factor	ssigned Onion workplace exposure innit(s).		
PBT: persistent, bioaccumulat			
vPvB: very persistent and very			
Composition comments	ent by weight unless ingredient is a gas. Gas concentrations are in percent by volume. The full text for all H-statements is displayed in section 16.		
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SECTION 4: First aid meas	sures		
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 meas	protect themselves.		
4.1. Description of first aid meas Inhalation	protect themselves.		
-	protect themselves. sures		
	protect themselves. sures Move to fresh air. Call a physician if symptoms develop or persist.		
Inhalation Skin contact	protect themselves. sures Move to fresh air. Call a physician if symptoms develop or persist. Wash off with soap and water. Get medical attention if irritation develops and persists.		
Inhalation Skin contact Eye contact Ingestion 4.2. Most important symptoms and effects, both acute and	protect themselves. sures Move to fresh air. Call a physician if symptoms develop or persist. Wash off with soap and water. Get medical attention if irritation develops and persists. Rinse with water. Get medical attention if irritation develops and persists. Call a physician or poison control centre immediately. Rinse mouth. Do not induce vomiting. If		
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SECTION 6: Accidental release measures

6.1. Personal precautions, protect	ctive 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 personal protection, see section 8 of the SDS.
For emergency responders	Keep unnecessary personnel away. Use personal protection recommended in Section 8 of the SDS.
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. For waste disposal, see section 13 of the SDS.
6.4. Reference to other sections	For personal protection, see section 8 of the SDS. For waste disposal, see section 13 of the SDS.
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. Store away from incompatible materials (see Section 10 of the SDS).
7.3. Specific end use(s)	Fuel additive

SECTION 8: Exposure controls/personal protection

Environmental exposure controls	Environmental manager must be informed of all major releases.	
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.	
Thermal hazards	Wear appropriate thermal protective clothing, when necessary.	
Respiratory protection	In case of insufficient ventilation, wear suitable respiratory equipment.	
- Other	Wear suitable protective clothing.	
- Hand protection	Wear appropriate chemical resistant gloves.	
Skin protection		
Eye/face protection	Face shield is recommended. Wear safety glasses with side shields (or goggles).	
Individual protection measures, s General information	such as personal protective equipment Personal protection equipment should be chosen according to the CEN standards and in discussion with the supplier of the personal protective equipment.	
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.	
8.2. Exposure controls		
Predicted no effect concentrations (PNECs)	Not available.	
Derived no effect levels (DNELs)	Not available.	
Recommended monitoring procedures	Follow standard monitoring procedures.	
Biological limit values	No biological exposure limits noted for the ingredient(s).	
Occupational exposure limits	No exposure limits noted for ingredient(s).	
8.1. Control parameters		

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties Appearance

Physical state	Liquid.
Form	Liquid.
Colour	Brown.
Odour	Characteristic.
Odour threshold	Not available.
рН	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.
Upper/lower flammability or exp	losive limits
Flammability limit - lower (%)	Not available.
Flammability limit - upper (%)	Not available.
Vapour pressure	Not available.
Vapour density	Not available.
Relative density	0.81 g/cm3
Relative density temperature	20 °C (68 °F)
Solubility(ies)	
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	< 20.5 mm²/s (40 °C (104 °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 e	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.	
Skin corrosion/irritation	Due to partial or complete lack of data the classification is not possible.	

Serious eye damage/eye irritation	Due to partial or complete lack of data the classification is not possible.
Respiratory sensitisation	Due to partial or complete lack of data the classification is not possible.
Skin sensitisation	Due to partial or complete lack of data the classification is not possible.
Germ cell mutagenicity	Due to partial or complete lack of data the classification is not possible.
Carcinogenicity	Due to partial or complete lack of data the classification is not possible.
Reproductive toxicity	Due to partial or complete lack of data the classification is not possible.
Specific target organ toxicity - single exposure	Due to partial or complete lack of data the classification is not possible.
Specific target organ toxicity - repeated exposure	Due to partial or complete lack of data the classification is not possible.
Aspiration hazard	May be fatal if swallowed and enters airways.
Mixture versus substance information	No information available.
Other information	Not available.

SECTION 12: Ecological information

12.1. Toxicity

Based on available data, the classification criteria are not met for hazardous to the aquatic environment.

Product	Species	Test Results
Comma Diesel Magic		
Aquatic		
Fish	LC50 Fish	31.25 mg/l, 96 hours estimated
12.2. Persistence and degradability	No data is available on the degra	dability of any ingredients in the mixture.
12.3. Bioaccumulative potential	No data available.	
Partition coefficient n-octanol/water (log Kow)	Not available.	
Bioconcentration factor (BCF)	Not available.	
12.4. Mobility in soil	No data available.	
12.5. Results of PBT and vPvB assessment	Not a PBT or vPvB substance or	mixture.
12.6. Other adverse effects		effects (e.g. ozone depletion, photochemical ozone creation obal warming potential) are expected from this component.

SECTION 13: Disposal considerations

13.1. Waste treatment methods	
Residual waste	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).
Contaminated packaging	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.
EU waste code	The Waste code should be assigned in discussion between the user, the producer and the waste disposal company.
Disposal methods/information	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.
Special precautions	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.

ΙΑΤΑ

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

IMDG

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

Not established.

according to Annex II of MARPOL 73/78 and the IBC Code

14.7. Transport in bulk

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.

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 Regulation (EC) 1272/2008 (CLP Regulation) as amended. This Safety Data Sheet complies with the requirements of Regulation (EC) No 1907/2006, as amended.	
National regulations	Follow national regulation on the protection of workers from the risks of exposure to carcinogens and mutagens at work, in accordance with Directive 2004/37/EC.	
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	H302 Harmful if swallowed. H304 May be fatal if swallowed and enters airways.
	H312 Harmful in contact with skin. H332 Harmful if inhaled. H411 Toxic to aquatic life with long lasting effects.

Revision	inforr	nation

Training information Disclaimer Product and Company Identification: Alternate Trade Names SECTION 2: Hazards identification: Hazard statements SECTION 7: Handling and storage: 7.2. Conditions for safe storage, including any incompatibilities Follow training instructions when handling this material.

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.