

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 Xstream G40 Ready Mixed			
Registration number	-			
Synonyms	None.			
Product code	XSG40M*L			
Issue date	02-November-2018			
Version number	12			
Revision date	02-November-2018			
1.2. Relevant identified uses of the substance or mixture and uses advised against				
Identified uses	Antifreeze or coolant			
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

Acute toxicity, oral	Category 4
Specific target organ toxicity - repeated exposure	Category 2 (kidney)

H302 - Harmful if swallowed. H373 - May cause damage to organs (kidney) through prolonged or repeated exposure.

Hazard summary

Harmful if swallowed. May cause damage to organs through prolonged or repeated exposure. Occupational exposure to the substance or mixture may cause adverse health effects.

2.2. Label elements

Label according to Regulation (EC) No. 1272/2008 as amended

Contains: Hazard pictograms



Signal word Hazard statements H302 H373

Harmful if swallowed. May cause damage to organs (kidney) through prolonged or repeated exposure.

Precautionary statements Prevention

P102 P264 P270	Keep out of reach of children. Wash thoroughly after handling. Do not eat, drink or smoke when using this product.
Response	
P301 + P310 P330	IF SWALLOWED: Immediately call a POISON CENTRE/doctor. Rinse mouth.
Storage	Not available.
Disposal	
P501	Dispose of waste and residues in accordance with local authority requirements.
Supplemental label information	None.
2.3. Other hazards	Not a PBT or vPvB substance or mixture.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

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General information

Chemical name	%	CAS-No. / EC No.	REACH Registration No.	Index No.	Notes
Ethylene glycol	40 - < 50	107-21-1 203-473-3	01-2119456816-28	603-027-00-1	#
Classification:	Acute Tox. 4;H302, ST	OT RE 2;H373			
Other components below	w reportable 50 - < 60				

levels

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.

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

SECTION 4: First aid measures

General information	If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance.	
4.1. Description of first aid meas	ures	
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	Rinse mouth. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs. Get medical advice/attention if you feel unwell.	
4.2. Most important symptoms and effects, both acute and delayed	Convulsions. Dizziness. Nausea, vomiting. Abdominal pain. Oedema. Prolonged exposure may cause chronic effects.	
4.3. Indication of any immediate medical attention and special treatment needed	Provide general supportive measures and treat symptomatically. Keep victim warm. Keep victim under observation. Symptoms may be delayed.	
SECTION 5: Firefighting m	easures	
General fire hazards	No unusual fire or explosion hazards noted.	
5.1. Extinguishing media Suitable extinguishing media	Alcohol resistant foam. Powder. Carbon dioxide (CO2).	
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.	

SECTION 6: Accidental release measures

6.1. Personal precautions, protection	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. Do not breathe mist or vapour. 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.	
6.2. Environmental precautions	Avoid discharge into drains, water courses or onto the ground.	
6.3. Methods and material for containment and cleaning up	Use water spray to reduce vapours or divert vapour cloud drift.	
	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	Do not breathe mist or vapour. Do not taste or swallow. Avoid prolonged exposure. When using, do not eat, drink or smoke. Provide adequate ventilation. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Observe good industrial hygiene practices.	
7.2. Conditions for safe	Store in original tightly closed container. Store away from incompatible materials (see Section 10	

incompatibilities7.3. Specific end use(s)Antifreeze or coolant

SECTION 8: Exposure controls/personal protection

of the SDS).

8.1. Control parameters

storage, including any

Occupational exposure limits

UK. EH40 Workplace Exposure Limits (WELs)

Components	Туре	Value	Form
Ethylene glycol (CAS 107-21-1)	STEL	104 mg/m3	Vapour.
		40 ppm	Vapour.
	TWA	52 mg/m3	Vapour.
		10 mg/m3	Particulate.
		20 ppm	Vapour.

EU. Indicative Exposure Limit Values in Directives 91/322/EEC, 2000/39/EC, 2006/15/EC, 2009/161/EU

Components	Туре	Value	
Ethylene glycol (CAS 107-21-1)	STEL	104 mg/m3	
		40 ppm	
	TWA	52 mg/m3	
		20 ppm	
iological limit values	No biological exposure limits noted for the ingredient(s).		
ecommended monitoring rocedures	Follow standard monitoring procedu	res.	
erived no effect levels DNELs)	Not available.		
redicted no effect oncentrations (PNECs)	Not available.		
xposure guidelines			
UK EH40 WEL: Skin desig	jnation		
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Ethylene glycol (CAS 107-21-1)

Can be absorbed through the skin.

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.

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	Chemical respirator with organic vapour cartridge and full facepiece.		
Skin protection			
- Hand protection	Wear appropriate chemical resistant gloves.		
- Other	Wear appropriate chemical resistant clothing. Use of an impervious apron is recommended.		
Respiratory protection	Chemical respirator with organic vapour cartridge and full facepiece.		
Thermal hazards	Wear appropriate thermal protective clothing, when necessary.		
Hygiene measures	Keep away from food and drink. 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	Violet.
Odour	Odourless.
Odour threshold	Not available.
рН	Not available.
Melting point/freezing point	Not available.
Initial boiling point and boiling range	Not available.
Flash point	> 100.0 °C (> 212.0 °F)
Evaporation rate	Not available.
Flammability (solid, gas)	Not applicable.
Upper/lower flammability or expl	osive limits
Flammability limit - lower (%)	Not available.
Flammability limit - upper (%)	Not available.
Vapour pressure	0.12 hPa estimated
Vapour density	Not available.
Relative density	1.075
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	
Density	2.13 g/cm3 estimated
Specific gravity	2.13 estimated

SECTION 10: Stability and reactivity

The product is stable and non-reactive under normal conditions of use, storage and transport.
Material is stable under normal conditions.
No dangerous reaction known under conditions of normal use.
Contact with incompatible materials.
Strong oxidising agents.
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	May cause damage to organs through prolonged or repeated exposure by inhalation.	
Skin contact	No adverse effects due to skin contact are expected.	
Eye contact	Direct contact with eyes may cause temporary irritation.	
Ingestion	Harmful if swallowed.	
Symptoms	Convulsions. Dizziness. Nausea, vomiting. Abdominal pain. Oedema.	
11.1. Information on toxicological effects		

Acute toxicity	Harmful if swallowed.		
Components	Species	Test Results	
Ethylene glycol (CAS 107-	21-1)		
Acute			
Dermal			
LD50	Rabbit	9530 mg/kg	
Oral			
LD50	Rat	5.89 g/kg	

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

Louinales for product may b	e based on additional component data not shown.
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	May cause damage to organs (kidney) through prolonged or repeated exposure.
Aspiration hazard	Due to partial or complete lack of data the classification is not possible.
Mixture versus substance information	No information available.
Other information	Not available.
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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 Xstream G40 Ready	/ Mixed			
Aquatic				
Fish	LC50	Fish	68729.1328 mg/l, 96 hours estimated	

Components		Species	Test Results
Ethylene glycol (CAS 107-21-1)			
Aquatic			
Fish	LC50	Fathead minnow (Pimephales promelas	s) 8050 mg/l, 96 hours
* Estimates for product may b	be based on ac	ditional component data not shown.	
12.2. Persistence and degradability	No data is a	vailable on the degradability of this product	
12.3. Bioaccumulative potential			
Partition coefficient n-octanol/water (log Kow) Ethylene glycol		-1.36	
Bioconcentration factor (BCF)	Not available		
12.4. Mobility in soil	No data ava	ilable.	
12.5. Results of PBT and vPvB assessment	Not a PBT o	r vPvB substance or mixture.	
12.6. Other adverse effects		verse environmental effects (e.g. ozone de docrine disruption, global warming potentia	
SECTION 13: Disposal co	nsideration	S	

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.

14.7. Transport in bulkNot established.according to Annex II ofMARPOL 73/78 and the IBCCodeCode

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.

• • • •	2 concerning the export and import of dangerous chemicals, Annex I, Part 3 as amended
Not listed.	
• • • •	2 concerning the export and import of dangerous chemicals, Annex V as amended
Not listed.	
• • • •	6 Annex II Pollutant Release and Transfer Registry, as amended
Not listed.	
• • • •	06, REACH Article 59(10) Candidate List as currently published by ECHA
Not listed.	
Authorisations	
Regulation (EC) No. 1907/20	06, REACH Annex XIV Substances subject to authorization, as amended
Not listed.	
Restrictions on use	
Regulation (EC) No. 1907/20	06, REACH Annex XVII Substances subject to restriction on marketing and use as amended
Not listed.	
	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 maj	or 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. This Safety Data Sheet complies with the requirements of Regulation (EC) No 1907/2006, as amended. The product is classified and labelled in accordance with Regulation (EC) 1272/2008
	(CLP Regulation) as amended.
National regulations	Follow national regulation for work with chemical agents.
	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 inform	ation
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. H373 May cause damage to organs through prolonged or repeated exposure.
Revision information	Product and Company Identification: Alternate Trade Names SECTION 7: Handling and storage: 7.2. Conditions for safe storage, including any incompatibilities
Training information	Follow training instructions when handling this material.
Disclaimer	Moove Lubricants Itd. 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.