# 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 G30 Ready Mixed

Registration number

**Synonyms** None. XSM\*L **Product code** 

24-October-2018 Issue date

Version number 11

24-October-2018 **Revision date** 

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

+44 (0) 1474 564 311 **Telephone** 

Operations Plant Dering Way, Gravesend, Kent DA12 2QX **Address** 

**Telephone** +44 (0) 1474 564 311

technical@uk.moovelub.com **Email** 

1.4. Emergency telephone

+ (1) 760 476 3960 **Asia Pacific** 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** 

H302 - Harmful if swallowed. Acute toxicity, oral Category 4 H373 - May cause damage to Specific target organ toxicity - repeated Category 2 (kidney) exposure 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: Ethylene glycol

Hazard pictograms



Signal word Warning

**Hazard statements** 

Harmful if swallowed. H302

May cause damage to organs (kidney) through prolonged or repeated exposure. H373

**Precautionary statements** 

Prevention

Material name: Comma Xstream G30 Ready Mixed - Moove Lubricants Itd. XSM\*L Version #: 11 Revision date: 24-October-2018 Issue date: 24-October-2018 P102 Keep out of reach of children.
P264 Wash thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.

Response

P301 + P310 IF SWALLOWED: Immediately call a POISON CENTRE/doctor.

P330 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

#### **General information**

Chemical name	%	CAS-No. / EC No.	<b>REACH Registration No.</b>	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 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.

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

#### **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 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 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

cause chronic effects.

delayed
4.3. Indication of any

immediate medical attention and special treatment needed

Provide general supportive measures and treat symptomatically. Keep victim warm. Keep victim

Convulsions. Dizziness. Nausea, vomiting. Abdominal pain. Oedema. Prolonged exposure may

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** Alcohol resistant foam. Powder. Carbon dioxide (CO2).

media

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

media

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, 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. 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

6.3. Methods and material for containment and cleaning up Avoid discharge into drains, water courses or onto the ground. 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. For personal protection, see section 8 of the SDS. For waste disposal, see section 13 of the SDS.

6.4. Reference to other

sections

## **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 storage, including any incompatibilities

7.3. Specific end use(s)

Store in original tightly closed container. Store away from incompatible materials (see Section 10 of the SDS).

Antifreeze or coolant

# SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

#### 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	

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

Recommended monitoring procedures

Derived no effect levels

Not available.

Predicted no effect concentrations (PNECs) Not available.

**Exposure guidelines** 

(DNELs)

#### **UK EH40 WEL: Skin designation**

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.

Individual protection measures, such as personal protective equipment

Personal protection equipment should be chosen according to the CEN standards and in **General information** 

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.

Wear appropriate chemical resistant clothing. Use of an impervious apron is recommended. - Other

Chemical respirator with organic vapour cartridge and full facepiece. Respiratory protection

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. Liquid. **Form** Colour Violet. Odourless. Odour Odour threshold Not available. Not available. pН Melting point/freezing point Not available.

Initial boiling point and boiling

Not available.

range

Flash point > 100.0 °C (> 212.0 °F)

**Evaporation rate** Not available. Flammability (solid, gas) Not applicable. Upper/lower flammability or explosive limits

Flammability limit - lower

Not available.

(%)

Flammability limit - upper

Not available.

(%)

0.12 hPa estimated Vapour pressure

Not available. Vapour density

1.075 Relative density

Relative density temperature 20 °C (68 °F)

Solubility(ies)

Solubility (water) Not available. Partition coefficient Not available.

(n-octanol/water)

**Auto-ignition temperature** Not available. **Decomposition temperature** Not available. **Viscosity** Not available. Not explosive. **Explosive properties** Oxidising properties Not oxidising.

No relevant additional information available. 9.2. Other information

#### **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 Contact with incompatible materials.

Strong oxidising agents. 10.5. Incompatible materials

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 May cause damage to organs through prolonged or repeated exposure by inhalation.

No adverse effects due to skin contact are expected. Skin contact Eye contact Direct contact with eyes may cause temporary irritation.

Harmful if swallowed. Ingestion

**Symptoms** Convulsions. Dizziness. Nausea, vomiting. Abdominal pain. Oedema.

#### 11.1. Information on toxicological effects

Harmful if swallowed. **Acute toxicity** 

Components **Species Test Results** 

Ethylene glycol (CAS 107-21-1)

**Acute** 

**Dermal** 

LD50 Rabbit 9530 mg/kg

Oral

LD50 Rat 5.89 a/ka

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. Due to partial or complete lack of data the classification is not possible. Reproductive toxicity

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.

Due to partial or complete lack of data the classification is not possible. Aspiration hazard

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 Test Results Species** 

Comma Xstream G30 Ready Mixed

Aquatic

LC50 Fish Fish 73507.2422 mg/l, 96 hours estimated

Components **Test Results Species** 

Ethylene glycol (CAS 107-21-1)

Aquatic

Fathead minnow (Pimephales promelas) 8050 mg/l, 96 hours Fish LC50

<sup>\*</sup> Estimates for product may be based on additional component data not shown.

<sup>\*</sup> Estimates for product may be based on additional component data not shown.

12.2. Persistence and

No data is available on the degradability of this product.

degradability

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 available.

12.5. Results of PBT and vPvB

assessment

Not a PBT or vPvB substance or mixture.

**12.6. Other adverse effects**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

**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.

Not established.

#### **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

#### **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

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 EC directives or respect

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 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.

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.

Material name: Comma Xstream G30 Ready Mixed - Moove Lubricants Itd.

XSM\*L Version #: 11 Revision date: 24-October-2018 Issue date: 24-October-2018