

# 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 Rad Seal	
Registration number	-	
Synonyms	None.	
Product code	RDS500M	
Issue date	06-November-2018	
Version number	05	
Revision date	06-November-2018	
1.2. Relevant identified uses of the substance or mixture and uses advised against		
Identified uses	Vehicle cooling system sealer	
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

This mixture does not meet the criteria for classification according to Regulation (EC) 1272/2008 as amended.

Hazard summary Not classified for health hazards. However, occupational exposure to the mixture or substance(s) may cause adverse health effects.

### 2.2. Label elements

Label according to Regulation (EC) No. 1272/2008 as amended		
Hazard pictograms	None.	
Signal word	None.	
Hazard statements	The mixture does not meet the criteria for classification.	
Precautionary statements		
Prevention	Not available.	
Response	Not available.	
Storage	Not available.	
Disposal	Not available.	
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

Dranan 0 al	0 . E 07 00 0	
Propan-2-ol	3 - < 5 67-63-0 - 200-661-7	603-117-00-0
Classification: Flam	n. Liq. 2;H225, Eye Irrit. 2;H319, STOT SE 3;H336	
Other components below report levels	table 90 - 100	
ist of abbreviations and symbol	-	
#: This substance has been as M: M-factor	signed Union workplace exposure limit(s).	
PBT: persistent, bioaccumulati	ve and toxic substance.	
vPvB: very persistent and very		
	nt by weight unless ingredient is a gas. Gas concentrations are	e in percent by volume.
Composition comments	The full text for all H-statements is displayed in section 16.	
SECTION 4: First aid meas	ures	
General information	Ensure that medical personnel are aware of the material(s) in protect themselves.	volved, and take precautions to
.1. Description of first aid meas		
Inhalation	Move to fresh air. Call a physician if symptoms develop or pe	
Skin contact	Wash off with soap and water. Get medical attention if irritation	
Eye contact	Rinse with water. Get medical attention if irritation develops a	ind persists.
Ingestion	Rinse mouth. Get medical attention if symptoms occur.	
I.2. Most important symptoms and effects, both acute and lelayed	Exposure may cause temporary irritation, redness, or discom	fort.
I.3. Indication of any mmediate medical attention and special treatment needed	Treat symptomatically.	
SECTION 5: Firefighting m	235Uros	
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 (CO2	2).
Unsuitable extinguishing media	Do not use water jet as an extinguisher, as this will spread the	e fire.
5.2. Special hazards arising rom 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	g 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 hazard	is of other involved materials.
SECTION 6: Accidental rele	ease measures	
.1. Personal precautions. protect	tive equipment and emergency procedures	
For non-emergency personnel	Keep unnecessary personnel away.	
For emergency responders	Keep unnecessary personnel away.	
.2. Environmental precautions	Avoid discharge into drains, water courses or onto the ground	J.
5.3. Methods and material for containment and cleaning up	Large Spills: Stop the flow of material, if this is without risk. D possible. Absorb in vermiculite, dry sand or earth and place in recovery, flush area with water.	
	Small Spills: Wipe up with absorbent material (e.g. cloth, flee remove residual contamination.	ce). Clean surface thoroughly to
	Never return spills to original containers for re-use.	

# **SECTION 7: Handling and storage**

7.1. Precautions for safe handling	Avoid prolonged exposure. Observe good industrial hygiene practices.
7.2. Conditions for safe storage, including any incompatibilities	Store in original tightly closed container.
7.3. Specific end use(s)	Vehicle cooling system sealer

# **SECTION 8: Exposure controls/personal protection**

### 8.1. Control parameters

### Occupational exposure limits

UK. EH40 Workplace Expos Components	Туре	Value	Form
Glycerol (CAS 56-81-5)	TWA	10 mg/m3	Mist.
Propan-2-ol (CAS 67-63-0)	STEL	1250 mg/m3	
		500 ppm	
	TWA	999 mg/m3	
		400 ppm	
Biological limit values	No biological exposure limits noted	for the ingredient(s).	
Recommended monitoring procedures	Follow standard monitoring procedu	ires.	
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 1 should be matched to conditions. If or other engineering controls to mai exposure limits have not been estab	applicable, use process enclosu intain airborne levels below recor	res, local exhaust ventilation, mmended exposure limits. If
Individual protection measures	, such as personal protective equip		·
General information	Personal protection equipment shou discussion with the supplier of the p	uld be chosen according to the C	EN standards and in
Eye/face protection	Wear safety glasses with side shield	ds (or goggles).	
Skin protection			
- Hand protection	Wear appropriate chemical resistan supplier.	t gloves. Suitable gloves can be	recommended by the glove
- Other	Wear appropriate chemical resistan	t clothing.	
<b>Respiratory protection</b>	In case of insufficient ventilation, we	ear suitable respiratory equipmer	ıt.
Thermal hazards	Wear appropriate thermal protective	e clothing, when necessary.	
Hygiene measures	Always observe good personal hygi and before eating, drinking, and/or equipment to remove contaminants	smoking. Routinely wash work c	
Environmental exposure controls	Environmental manager must be inf	formed of all major releases.	

### **SECTION 9: Physical and chemical properties**

### 9.1. Information on basic physical and chemical properties

Appearance
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Liquid.
Liquid.
Greenish-blue.
Characteristic.
Not available.
Not available.
Not available.

Initial boiling point and boiling range	Not available.
Flash point	Not available.
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	0.00001 hPa estimated
Vapour density	Not available.
Relative density	1.01
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	No relevant additional information available.

# **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.
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	xposure	
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	May cause discomfort if swallowed. However, ingestion is not likely to be a primary route of occupational exposure.	
Symptoms	Exposure may cause temporary irritation, redness, or discomfort.	

11.1. Information on toxicological effects

Acute toxicity

Components	Species	Test Results
Propan-2-ol (CAS 67-63-0)		
Acute		
Oral		
LD50	Rat	5045 mg/kg
* Estimates for product ma	y be based on additional compo	nent data not shown.
Skin corrosion/irritation	Due to partial or complete la	ack of data the classification is not possible.
Serious eye damage/eye irritation	Due to partial or complete l	ack 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	Due to partial or complete lack of data the classification is not possible.
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.

	environm	ent.		
Product		Species	Test Results	
Comma Xstream Rad Seal				
Aquatic				
Crustacea	EC50	Daphnia	13836 mg/l, 48 hours estimated	
Fish	LC50	Fish	39922.6055 mg/l, 96 hours estimated	
Components		Species	Test Results	
Propan-2-ol (CAS 67-63-0)				
Aquatic				
Fish	LC50	Bluegill (Lepomis macrochirus)	> 1400 mg/l, 96 hours	
12.3. Bioaccumulative potentia Partition coefficient n-octanol/water (log Kow) Propan-2-ol	I	0.05		
Bioconcentration factor (BCF)	Not availa	able.		
12.4. Mobility in soil	No data a	No data available.		
12.5. Results of PBT and vPvB assessment	Not a PB	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 co	onsiderati	ons		
13.1. Waste treatment methods	;			
Residual waste	product r	of in accordance with local regulations. Em esidues. This material and its container mu 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.

**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. 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 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 Propan-2-ol (CAS 67-63-0)

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

Not listed.

### **Other EU regulations**

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

Propan-2-ol (CAS 67-63-0)

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	No Chemical Safety Assessment has been carried out.

assessment

### **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

Revision information Training information Disclaimer H225 Highly flammable liquid and vapour.H319 Causes serious eye irritation.H336 May cause drowsiness or dizziness.Product and Company Identification: Alternate Trade Names

Follow training instructions when handling this material.

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.