

# 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

RSC EnviroLogic Grease 0

Registration number

**Synonyms** None. ELGR00 Part No. 15-May-2017 Issue date

Version number 02

**Revision date** 17-December-2018 15-May-2017 Supersedes date

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

Identified uses Lubricating grease Uses advised against None known. 1.3. Details of the supplier of the safety data sheet

Supplier

Company name **RSC Bio Solutions Address** 600 Radiator Road

Division

Telephone Phone: 704-684-6100

704-257-8996 Fax:

Not available. e-mail **Contact person** Not available.

**EMERGENCY PH NO:** 1.4. Emergency telephone 1-800-661-3558

# **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 Directive 67/548/EEC or 1999/45/EC as amended

This preparation does not meet the criteria for classification according to Directive 1999/45/EC as amended.

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

**Health hazards** 

Serious eye damage/eye irritation Category 2 H319 - Causes serious eye

irritation.

**Hazard summary** 

Physical hazards Not classified for physical hazards.

**Health hazards** Not classified for health hazards. However, occupational exposure to the mixture or substance(s)

may cause adverse health effects.

**Environmental hazards** Not classified for hazards to the environment.

Specific hazards None known.

Main symptoms Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred

vision.

2.2. Label elements

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

Synthetic Biodegradable Base Oil Contains:

**Hazard pictograms** 

Signal word Warning

Material name: RSC EnviroLogic Grease 0

**Hazard statements** 

Causes serious eye irritation. H319

**Precautionary statements** 

P305 + P351 + P338

Prevention

Wash thoroughly after handling. P264 Wear eye protection/face protection. P280

Response

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present

and easy to do. Continue rinsing

If eye irritation persists: Get medical advice/attention. P337 + P313

Storage Store away from incompatible materials.

Dispose of waste and residues in accordance with local authority requirements. Disposal

Supplemental label information 90 % of the mixture consists of component(s) of unknown acute oral toxicity. 91 % of the mixture

> consists of component(s) of unknown acute dermal toxicity. 91 % of the mixture consists of component(s) of unknown acute hazards to the aquatic environment. 91 % of the mixture consists

of component(s) of unknown long-term hazards to the aquatic environment.

Not a PBT or vPvB substance or mixture. 2.3. Other hazards

# **SECTION 3: Composition/information on ingredients**

#### 3.2. Mixtures

#### **General information**

Chemical name		%	CAS-No. / EC No.	REACH Registration No.	Index No.	Notes
Synthetic Biodegradab	le Base Oil	60 - < 70	178603-64-0	-	-	
Classification:	DSD: - CLP: Asp	. Tox. 1:H30	- )4			
CANOLA OIL	<u> </u>	30 - < 40	120962-03-0	-	-	
Classification:	DSD: - CLP: -		-			

Other components below reportable 10 - < 20

levels

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

DSD: Directive 67/548/EEC

CLP: Regulation No. 1272/2008.

#: 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.

# **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.

Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if Eye contact

present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

Rinse mouth. Get medical attention if symptoms occur. Ingestion

4.2. Most important symptoms and effects, both acute and

delayed

Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred

vision.

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 Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).

media

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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

Use water spray to cool unopened containers.

**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. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. 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

The product is immiscible with water and will spread on the water surface.

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.

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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.

6.4. Reference to other

sections

Not available.

# **SECTION 7: Handling and storage**

7.1. Precautions for safe

handling

Avoid contact with eyes. Avoid prolonged exposure. Provide adequate ventilation. Wear appropriate personal protective equipment. 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) Not available.

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

#### 8.1. Control parameters

# Occupational exposure limits

Belgium, Exposure Limit Values.

Components	Type	Value	
Calcium carbonate (CAS 471-34-1)	TWA	10 mg/m3	_

# Bulgaria. OELs. Regulation No 13 on protection of workers against risks of exposure to chemical agents at work Components Type Value Form Calcium carbonate (CAS 471-34-1) 10 mg/m3 Inhalable fraction. 10 mg/m3

# Croatia. Dangerous Substance Exposure Limit Values in the Workplace (ELVs), Annexes 1 and 2, Narodne Novine, 13/09ComponentsTypeValueFormCalcium carbonate (CAS 471-34-1)MAC4 mg/m3Respirable dust.10 mg/m3Total dust.

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Components	Туре	Value	
Calcium carbonate (CAS 471-34-1)	TWA	10 mg/m3	
Czech Republic. OELs. Government Decre			_
Components	Туре	Value	Form
Calcium carbonate (CAS 471-34-1)	TWA	10 mg/m3	Dust.
Estonia. OELs. Occupational Exposure Lin 2001)	nits of Hazardous Sub	stances. (Annex of Regulation	n No. 293 of 18 Septemb
Components	Туре	Value	Form
Calcium carbonate (CAS 471-34-1)	TWA	5 mg/m3	Respirable dust.
		10 mg/m3	
Finland. Workplace Exposure Limits			
Components	Туре	Value	Form
Calcium carbonate (CAS 471-34-1)	TWA	10 mg/m3	Dust.
France. Threshold Limit Values (VLEP) for Components	Occupational Exposu Type	re to Chemicals in France, IN Value	IRS ED 984
Calcium carbonate (CAS 471-34-1)	VME	10 mg/m3	
Regulatory status: Indicative limit (VL	-)		
Germany. DFG MAK List (advisory OELs).	Commission for the In	vestigation of Health Hazard	s of Chemical Compoun
in the Work Area (DFG) Components	Туре	Value	Form
Synthetic Biodegradable	TWA	5 mg/m3	Respirable fraction.
Base Oil (CAS 178603-64-0)	IWA	3 mg/ms	rvespirable fraction.
Greece. OELs (Decree No. 90/1999, as ame Components	ended) Type	Value	Form
Calcium carbonate (CAS	TWA	5 mg/m3	Respirable.
471-34-1)			
		10 mg/m3	Inhalable
Hungary. OELs. Joint Decree on Chemical		Value	
Components	Туре	Value	
Calcium carbonate (CAS	TWA	10 mg/m3	
471-34-1)			
471-34-1) reland. Occupational Exposure Limits	Туре	Value	Form
471-34-1) Ireland. Occupational Exposure Limits Components	<b>Type</b> TWA	Value 4 mg/m3	Form  Respirable dust.
471-34-1)  Ireland. Occupational Exposure Limits  Components  Calcium carbonate (CAS		4 mg/m3	Respirable dust.
471-34-1)  Ireland. Occupational Exposure Limits  Components  Calcium carbonate (CAS			
Ireland. Occupational Exposure Limits Components Calcium carbonate (CAS 471-34-1) Italy. Occupational Exposure Limits		4 mg/m3	Respirable dust.
Ireland. Occupational Exposure Limits Components Calcium carbonate (CAS 471-34-1) Italy. Occupational Exposure Limits Components	TWA	4 mg/m3 10 mg/m3 <b>Value</b>	Respirable dust.  Total inhalable dust.
A71-34-1) Ireland. Occupational Exposure Limits Components  Calcium carbonate (CAS 471-34-1)  Italy. Occupational Exposure Limits Components  Synthetic Biodegradable Base Oil (CAS	TWA	4 mg/m3 10 mg/m3	Respirable dust.  Total inhalable dust.  Form
Ireland. Occupational Exposure Limits Components  Calcium carbonate (CAS 471-34-1)  Italy. Occupational Exposure Limits Components  Synthetic Biodegradable Base Oil (CAS 178603-64-0)  Latvia. OELs. Occupational exposure limit	Type TWA	4 mg/m3 10 mg/m3  Value 5 mg/m3	Respirable dust.  Total inhalable dust.  Form  Inhalable fraction.
Ireland. Occupational Exposure Limits Components  Calcium carbonate (CAS 471-34-1)  Italy. Occupational Exposure Limits Components  Synthetic Biodegradable Base Oil (CAS 178603-64-0)  Latvia. OELs. Occupational exposure limit Components  Calcium carbonate (CAS 471-34-1)	TWA  Type  TWA  values of chemical su	4 mg/m3 10 mg/m3  Value 5 mg/m3  bstances in work environme	Respirable dust.  Total inhalable dust.  Form  Inhalable fraction.

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Components	th factors in the work environment, Jo Type	Value	Form	
Calcium carbonate (CAS 471-34-1)	TWA	10 mg/m3	Inhalable fraction.	
Synthetic Biodegradable Base Oil (CAS 178603-64-0)	TWA	5 mg/m3	Inhalable fraction.	
Portugal. VLEs. Norm on c Components	occupational exposure to chemical ag Type	ents (NP 1796) Value		
Calcium carbonate (CAS 471-34-1)	TWA	10 mg/m3		
Romania. OELs. Protection	n of workers from exposure to chemic Type	al agents at the workplace Value	Form	
Calcium carbonate (CAS 471-34-1)	TWA	10 mg/m3	Inhalable fraction.	
•	n No. 300/2007 concerning protection Type	of health in work with chemi Value	cal agents Form	
Calcium carbonate (CAS 471-34-1)	TWA	10 mg/m3		
Synthetic Biodegradable Base Oil (CAS 178603-64-0)	STEL	3 mg/m3	Fume and mist.	
		15 ppm	Fume and mist.	
	TWA	1 mg/m3	Fume and mist.	
		5 ppm	Fume and mist.	
Switzerland. SUVA Grenzv Components	verte am Arbeitsplatz Type	Value	Form	
Calcium carbonate (CAS 471-34-1)	TWA	3 mg/m3	Respirable dust.	
Synthetic Biodegradable Base Oil (CAS 178603-64-0)	TWA	5 mg/m3	Inhalable dust.	
UK. EH40 Workplace Expo	sure Limits (WELs)			
Components	Туре	Value	Form	
Calcium carbonate (CAS 471-34-1)	TWA	4 mg/m3	Respirable.	
		4 mg/m3	Respirable dust.	
		10 mg/m3	Inhalable dust.	
		10 mg/m3	Inhalable	
ogical limit values	No biological exposure limits noted for	or the ingredient(s).		
ommended monitoring redures	Follow standard monitoring procedures.			
ved no effect levels ELs)	Not available.			
licted no effect centrations (PNECs)	Not available.			
Exposure controls				
ropriato opginooring	Good general ventilation (typically 10	A almahamman mari bassin katili Isla	haad \/au#!!=#!==(	

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. Provide

eyewash station.

Individual protection measures, such as personal protective equipment

**General information** Use personal protective equipment as required. 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 Wear safety glasses with side shields (or goggles). Skin protection

Wear appropriate chemical resistant gloves. - Hand protection

Wear suitable protective clothing. - Other

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

Wear appropriate thermal protective clothing, when necessary. Thermal hazards

Always observe good personal hygiene measures, such as washing after handling the material Hygiene measures

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

semi-solid **Appearance** Physical state Solid. **Form** Solid. Colour Tan.

Odour Not available. **Odour threshold** Not available рH Not available. Melting point/freezing point Not available. Initial boiling point and boiling Not available.

range

> 170,0 °C (> 338,0 °F) Flash point

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

Flammability limit - lower

Not available.

(%)

Flammability limit - upper

Not available.

(%)

< 0.13 kPa Vapour pressure

< 1 Vapour density

Relative density Not available.

Solubility(ies)

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

(n-octanol/water)

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

9.2. Other information

**Density** 7,51 lbs/gal 0,87 Specific gravity

# **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.

Contact with incompatible materials. 10.4. Conditions to avoid

10.5. Incompatible materials Strong oxidising agents.

Sulphur oxides. Nitrogen oxides (NOx). Carbon oxides. 10.6. Hazardous

decomposition products

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# **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.

No adverse effects due to skin contact are expected. Skin contact

Eve contact Causes serious eye irritation.

May cause discomfort if swallowed. However, ingestion is not likely to be a primary route of Ingestion

occupational exposure.

**Symptoms** Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred

# 11.1. Information on toxicological effects

Not known. **Acute toxicity** 

Due to partial or complete lack of data the classification is not possible. Skin corrosion/irritation

Serious eye damage/eye

irritation

Causes serious eye irritation.

Respiratory sensitisation 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. Skin sensitisation Due to partial or complete lack of data the classification is not possible. Germ cell mutagenicity

Carcinogenicity Not applicable.

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

Not listed.

Reproductive toxicity Specific target organ toxicity -

single exposure

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.

Specific target organ toxicity -

repeated exposure

Based on available data, the classification criteria are not met.

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

Mixture versus substance

information

No information available.

Not available. Other information

# **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	
RSC EnviroLogic Grease	0			
Aquatic				
Acute				
Algae	EC50	Algae	> 100 mg/l	
Crustacea	LC50	Crustacea	> 100 mg/l	
Fish	EC50	Fish	> 100 mg/l	

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

#### 12.2. Persistence and

degradability

Biodegradability

Percent Degradation (Aerobic Biodegradation)

> 60 % ASTM D7373 RSC EnviroLogic Grease 0

No data available. 12.3. Bioaccumulative potential Partition coefficient

n-octanol/water (log Kow)

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

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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.

# **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

Not applicable.

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

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.

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#### Other EU regulations

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

Not listed.

The product is classified and labelled in accordance with Regulation (EC) 1272/2008 (CLP Other regulations

Regulation) as amended. This Safety Data Sheet complies with the requirements of Regulation

(EC) No 1907/2006, as amended.

Follow national regulation for work with chemical agents. **National regulations** 

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 statements or R-phrases and H-statements under Sections 2 to 15

H304 May be fatal if swallowed and enters airways.

**Revision information** None

**Training information** Follow training instructions when handling this material.

The information provided in this Safety Data Sheet is correct to the best of our knowledge, Disclaimer

information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other

materials or in any process, unless specified in the text.

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