

SAFETY DATA SHEET

According to Regulation (EC) No. 1907/2006 (REACH) Article 31, Annex II as amended.

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Product name: ECOCOOL R-AFC 1515 JLR

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

Identified uses: Coolant/ Cutting solution

Uses advised against: No uses advised against identified.

1.3 Details of the supplier of the safety data sheet

Manufacturer / Supplier

FUCHS LUBRICANTS (UK) PLC.
New Century Street
Hanley
Stoke-on-Trent, Staffordshire, ST1 5HU
UK

Telephone: +44 (0) 1782 203700

Contact Person:

Telephone: +44 (0) 1782 203700
E-mail: product.safety@fuchs-oil.com

1.4 Emergency telephone number: UK NHS: Dial 111. Ireland NPIS: Dial +353 1 8092566.

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

The product has been classified and labelled as hazardous according to regulation (EU) 1272/2008 (CLP).

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

Health Hazards

Skin irritation	Category 2	H315: Causes skin irritation.
Serious eye irritation	Category 2	H319: Causes serious eye irritation.

Hazard summary

Physical Hazards: No data available.

2.2 Label Elements

Product name: ECOCOOL R-AFC 1515 JLR



Signal Words: Warning

Hazard Statement(s): H315: Causes skin irritation.
H319: Causes serious eye irritation.

Precautionary Statement

Prevention: P262: Do not get in eyes, on skin, or on clothing.

Supplemental label information

EUH208: Contains Iodobutylcarbamate. May produce an allergic reaction.

2.3 Other hazards: By handling of mineral oil products and chemical products no particular hazard is known when normal precautions (item 7) and personal protective equipment (item 8) are kept. The product may not be released into the environment without control.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

General information: Metal working lubricant concentrate

Chemical name	Identifier	Concentration *	REACH Registration No.	Notes
Organic polysulphide	EINECS: 270-335-7	1,00 - <5,00%	01-2119540516-41	
tert. alkanolamine, ionic equilibrium with acids	Neutralisation product (*)	1,00 - <5,00%		
tert. alkanolamine, ionic equilibrium with acids	Neutralisation product (*)	1,00 - <5,00%		
Oxazolidine derivative	EINECS: 266-235-8	1,00 - <3,00%		
Fatty alcohol, ethoxylated	EC: 500-201-8	1,00 - <5,00%		
Boric acid	EINECS: 233-139-2	0,30 - <1,00%	01-2119486683-25	**
Pyrrithione, sodium salt	EINECS: 223-296-5	0,10 - <1,00%		
Iodobutylcarbamate	EINECS: 259-627-5	0,10 - <0,25%		

* All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

PBT: persistent, bioaccumulative and toxic substance.

vPvB: very persistent and very bioaccumulative substance.

** Regulation (EC) No. 1907/2006, REACH Article 59(1). Candidate List

(*) Neutralisation product: Equilibrium of Ionic Pairs in aqueous solution according to REACH Annex V, 4.

Product name: ECOCOOL R-AFC 1515 JLR

Classification

Chemical name	Identifier	Classification
Organic polysulphide	EINECS: 270-335-7	CLP: Aquatic Chronic 4;H413
tert. alkanolamine, ionic equilibrium with acids	Neutralisation product (*)	CLP: Acute Tox. 4;H302, Acute Tox. 4;H312, Eye Irrit. 2;H319, Skin Irrit. 2;H315
tert. alkanolamine, ionic equilibrium with acids	Neutralisation product (*)	CLP: Acute Tox. 4;H302, Acute Tox. 3;H311, Acute Tox. 3;H331, Flam. Liq. 3;H226, Eye Irrit. 2;H319, Skin Irrit. 2;H315
Oxazolidine derivative	EINECS: 266-235-8	CLP: Skin Corr. 1C;H314, Eye Dam. 1;H318, Acute Tox. 4;H302, Acute Tox. 4;H312
Fatty alcohol, ethoxylated	EC: 500-201-8	CLP: Eye Irrit. 2;H319
Boric acid	EINECS: 233-139-2	CLP: Repr. 1B;H360Df
Pyrrhione, sodium salt	EINECS: 223-296-5	CLP: Acute Tox. 4;H302, Skin Irrit. 2;H315, Eye Irrit. 2;H319, Aquatic Acute 1;H400, Acute Tox. 4;H332, Acute Tox. 4;H312
Iodobutylcarbamate	EINECS: 259-627-5	CLP: Acute Tox. 4;H302, Acute Tox. 4;H332, Eye Dam. 1;H318, Skin Sens. 1;H317, STOT SE 3;H335, Aquatic Acute 1;H400, Aquatic Chronic 1;H410; M-Factor (aquatic acute): 10; M-Factor (aquatic chronic): 1

CLP: Regulation No. 1272/2008.

For the wording of the listed risk phrases refer to section 16.

SECTION 4: First aid measures

General: Instantly remove any clothing soiled by the product.

4.1 Description of first aid measures

Inhalation: Supply fresh air; consult doctor in case of symptoms.

Eye contact: Immediately flush with plenty of water for at least 15 minutes. If easy to do, remove contact lenses. Get medical attention.

Skin Contact: Immediately flush with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash contaminated clothing before reuse. Get medical attention.

Ingestion: Rinse mouth. Call a POISON CENTER/doctor if you feel unwell.

4.2 Most important symptoms and effects, both acute and delayed: Causes serious eye irritation. Causes skin irritation.

4.3 Indication of any immediate medical attention and special treatment needed Hand over this safety data sheet to the physician with the special comment "watermiscible cutting oil". Get medical attention if symptoms occur.

SECTION 5: Firefighting measures

Product name: ECOCOOL R-AFC 1515 JLR

5.1 Extinguishing media

Suitable extinguishing media: CO₂, fire extinguishing powder or fog like water spraying. Extinguish larger fires with alcohol resistant foam or spray water with suitable surfactant added

Unsuitable extinguishing media: Water with a full water jet.

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 fire fighting procedures: Move container from fire area if it can be done without risk. Dispose of fire debris and contaminated fire fighting water in accordance with official regulations. Collect contaminated fire fighting water separately. It must not enter drains.

Special protective equipment for fire-fighters: Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures: Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Keep unauthorized personnel away. In case of spills, beware of slippery floors and surfaces.

6.2 Environmental Precautions: Prevent from spreading (e.g. by binding or oil barriers). Avoid release to the environment. Environmental manager must be informed of all major spillages. Prevent further leakage or spillage if safe to do so. Do not allow to enter drainage system, surface or ground water.

6.3 Methods and material for containment and cleaning up: Absorb with liquid-binding material (sand, diatomite, acidbinders, universal binders, sawdust). Dispose of the material collected according to regulations. Stop the flow of material, if this is without risk.

6.4 Reference to other sections: See Section 8 of the SDS for Personal Protective Equipment. See Section 7 for information on safe handling See Section 13 for information on disposal.

Dike for later disposal. Prevent entry into waterways, sewer, basements or confined areas. Stop the flow of material, if this is without risk.

SECTION 7: Handling and storage:

7.1 Precautions for safe handling: Avoid contact with eyes. Wash hands thoroughly after handling. Do not eat, drink or smoke when working with the product. Take usual precautions when handling mineral oil products or chemical products. Avoid contact with skin. Prevent formation of aerosols. Observe good industrial hygiene practices. Provide adequate ventilation.

Product name: ECOCOOL R-AFC 1515 JLR

7.2 Conditions for safe storage, including any incompatibilities: Local regulations concerning handling and storage of waterpolluting products have to be followed. Store above freezing.

7.3 Specific end use(s): not applicable

SECTION 8: Exposure controls/personal protection

8.1 Control Parameters

Occupational Exposure Limits

None of the components have assigned exposure limits.

8.2 Exposure controls

Appropriate engineering controls:

Provide adequate ventilation. 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

General information:

Wash hands before breaks and after work. 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. The usual precautionary measures should be adhered to in handling the chemicals or the mineral oil products.

Eye/face protection:

Safety glasses (EN 166) recommended during refilling. Avoid contact with eyes.

Skin protection

Hand Protection:

Material: Nitrile butyl rubber (NBR). Avoid long-term and repeated skin contact. Suitable gloves can be recommended by the glove supplier. Use skin protection cream for preventive skin protection. Protective gloves, where permitted in acc. to safety directions. The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

Other:

Do not carry cleaning cloths impregnated with the product in trouser pockets. Wear suitable protective clothing.

Respiratory Protection:

Ensure good ventilation/exhaustion at the workplace. Avoid breathing vapour/ aerosol.

Thermal hazards:

Not known.

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 to remove contaminants. Discard contaminated footwear that cannot be cleaned.

Product name: ECOCOOL R-AFC 1515 JLR

Environmental Controls: No data available.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance

Physical state:	liquid
Form:	liquid
Color:	Brown
Odor:	Characteristic
Odor Threshold:	Not applicable for mixtures
pH:	9,4 (50 g/l)
Freezing point:	Not applicable for mixtures
Boiling Point:	Value not relevant for classification
Flash Point:	not applicable
Evaporation Rate:	Not applicable for mixtures
Flammability (solid, gas):	Value not relevant for classification
Flammability Limit - Upper (%)—:	Not applicable for mixtures
Flammability Limit - Lower (%)—:	Not applicable for mixtures
Vapor pressure:	Not applicable for mixtures
Vapor density (air=1):	Not applicable for mixtures
Density:	0,98 g/cm ³ (15 °C)
Solubility(ies)	
Solubility in Water:	Miscible with water.
Solubility (other):	No data available.
Partition coefficient (n-octanol/water):	Not applicable for mixtures
Autoignition Temperature:	Value not relevant for classification
Decomposition Temperature:	Value not relevant for classification
Flow time	Value not relevant for classification
Explosive properties:	Value not relevant for classification
Oxidizing properties:	Value not relevant for classification

9.2 Other information No data available.

SECTION 10: Stability and reactivity

10.1 Reactivity:	Stable under normal use conditions.
10.2 Chemical Stability:	Stable under normal use conditions.
10.3 Possibility of hazardous reactions:	Stable under normal use conditions.
10.4 Conditions to avoid:	Stable under normal use conditions.
10.5 Incompatible Materials:	Strong oxidizing substances. Strong acids. Strong bases.

Product name: ECOCOOL R-AFC 1515 JLR

10.6 Hazardous Decomposition Products: Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapors.

SECTION 11: Toxicological information

Information on likely routes of exposure

Inhalation: No data available.

Ingestion: No data available.

Skin Contact: Causes skin irritation.

Eye contact: Causes eye irritation.

11.1 Information on toxicological effects

Acute toxicity

Oral

Product: ATEmix: 10.388,25 mg/kg

Specified substance(s)

Organic polysulphide	No data available.
tert. alkanolamine, ionic equilibrium with acids	LD 50 (Rat): 600 mg/kg
tert. alkanolamine, ionic equilibrium with acids	LD 50 (Rat): 1.320 mg/kg
Oxazolidine derivative	LD 50 (Rat): 900 mg/kg
Fatty alcohol, ethoxylated	LD 50 (Rat): > 5.000 mg/kg
Boric acid	LD 50 (Rat, Male): 3.450 mg/kg (OECD 401)
Pyrrhione, sodium salt	LD 50 (Rat): 1.600 mg/kg
Iodobutylcarbamate	LD 50 (Rat): 1.470 mg/kg

Dermal

Product: ATEmix: 7.092,36 mg/kg

Specified substance(s)

Organic polysulphide	No data available.
tert. alkanolamine, ionic equilibrium with acids	LD 50 (Rabbit): 1.680 mg/kg
tert. alkanolamine, ionic equilibrium with acids	LD 50 (Rabbit): 1.100 mg/kg
Oxazolidine derivative	LD 50 (Rabbit): 1.207 - 1.620 mg/kg
Fatty alcohol, ethoxylated	No data available.
Boric acid	LD 50 (Rabbit): > 2.001 mg/kg
Pyrrhione, sodium salt	LD 50 (Rabbit): 1.800 mg/kg
Iodobutylcarbamate	LD 50 (Rabbit): > 2.001 mg/kg

Inhalation

Product: ATEmix: 95,32 mg/l
Vapour

Product name: ECOCOOL R-AFC 1515 JLR

Specified substance(s)

Organic polysulphide	No data available.
tert. alkanolamine, ionic equilibrium with acids	No data available.
tert. alkanolamine, ionic equilibrium with acids	No data available.
Oxazolidine derivative	No data available.
Fatty alcohol, ethoxylated	No data available.
Boric acid	LC 50 (Rat, Female, Male, 4 h): > 2,12 mg/l (OECD 403)
Pyrrhione, sodium salt	No data available.
Iodobutylcarbamate	LC 50 (Rat, 4 h): 6,89 mg/l

Repeated dose toxicity

Product: No data available.

Specified substance(s)

Organic polysulphide	No data available.
tert. alkanolamine, ionic equilibrium with acids	No data available.
tert. alkanolamine, ionic equilibrium with acids	No data available.
Oxazolidine derivative	No data available.
Fatty alcohol, ethoxylated	No data available.
Boric acid	No data available.
Pyrrhione, sodium salt	No data available.
Iodobutylcarbamate	NOAEL (Rat, Oral, 2 Years): 20 mg/kg

Skin Corrosion/Irritation:

Product: No data available.

Specified substance(s)

Organic polysulphide	No data available.
tert. alkanolamine, ionic equilibrium with acids	No data available.
tert. alkanolamine, ionic equilibrium with acids	No data available.
Oxazolidine derivative	No data available.
Fatty alcohol, ethoxylated	No data available.
Boric acid	No data available.
Pyrrhione, sodium salt	No data available.
Iodobutylcarbamate	(Rabbit): Strongly irritating.

Serious Eye Damage/Eye Irritation:

Product: No data available.

Product name: ECOCOOL R-AFC 1515 JLR

Specified substance(s)

Organic polysulphide	No data available.
tert. alkanolamine, ionic equilibrium with acids	No data available.
tert. alkanolamine, ionic equilibrium with acids	No data available.
Oxazolidine derivative	No data available.
Fatty alcohol, ethoxylated	No data available.
Boric acid	No data available.
Pyrithione, sodium salt	No data available.
Iodobutylcarbamate	(Rabbit): Strongly irritating.

Respiratory or Skin Sensitization:

Product: No data available.

Specified substance(s)

Organic polysulphide	No data available.
tert. alkanolamine, ionic equilibrium with acids	No data available.
tert. alkanolamine, ionic equilibrium with acids	No data available.
Oxazolidine derivative	No data available.
Fatty alcohol, ethoxylated	No data available.
Boric acid	No data available.
	No sensitizing effect (guinea pig); OECD 406
Pyrithione, sodium salt	No data available.
Iodobutylcarbamate	No data available.

Product name: ECOCOOL R-AFC 1515 JLR

Germ Cell Mutagenicity

In vitro

Product: No data available.

Specified substance(s)

Organic polysulphide	No data available.
tert. alkanolamine, ionic equilibrium with acids	No data available.
tert. alkanolamine, ionic equilibrium with acids	No data available.
Oxazolidine derivative	No data available.
Fatty alcohol, ethoxylated	No data available.
Boric acid	No data available.
Pyrithione, sodium salt	No data available.
Iodobutylcarbamate	No data available.

In vivo

Product: No data available.

Specified substance(s)

Organic polysulphide	No data available.
tert. alkanolamine, ionic equilibrium with acids	No data available.
tert. alkanolamine, ionic equilibrium with acids	No data available.
Oxazolidine derivative	No data available.
Fatty alcohol, ethoxylated	No data available.
Boric acid	No data available.
Pyrithione, sodium salt	No data available.
Iodobutylcarbamate	No data available.

Carcinogenicity

Product: No data available.

Specified substance(s)

Organic polysulphide	No data available.
tert. alkanolamine, ionic equilibrium with acids	No data available.
tert. alkanolamine, ionic equilibrium with acids	No data available.
Oxazolidine derivative	No data available.
Fatty alcohol, ethoxylated	No data available.
Boric acid	No data available.
Pyrithione, sodium salt	No data available.
Iodobutylcarbamate	No data available.

Reproductive toxicity

Product: No data available.

Product name: ECOCOOL R-AFC 1515 JLR

Specified substance(s)

Organic polysulphide	No data available.
tert. alkanolamine, ionic equilibrium with acids	No data available.
tert. alkanolamine, ionic equilibrium with acids	No data available.
Oxazolidine derivative	No data available.
Fatty alcohol, ethoxylated	No data available.
Boric acid	No data available.
Pyrrhione, sodium salt	No data available.
Iodobutylcarbamate	No data available.

Specific Target Organ Toxicity - Single Exposure

Product: No data available.

Specified substance(s)

Organic polysulphide	No data available.
tert. alkanolamine, ionic equilibrium with acids	No data available.
tert. alkanolamine, ionic equilibrium with acids	No data available.
Oxazolidine derivative	No data available.
Fatty alcohol, ethoxylated	No data available.
Boric acid	No data available.
Pyrrhione, sodium salt	No data available.
Iodobutylcarbamate	No data available.

Specific Target Organ Toxicity - Repeated Exposure

Product: No data available.

Specified substance(s)

Organic polysulphide	No data available.
tert. alkanolamine, ionic equilibrium with acids	No data available.
tert. alkanolamine, ionic equilibrium with acids	No data available.
Oxazolidine derivative	No data available.
Fatty alcohol, ethoxylated	No data available.
Boric acid	No data available.
Pyrrhione, sodium salt	No data available.
Iodobutylcarbamate	No data available.

Aspiration Hazard

Product: No data available.

Specified substance(s)

Product name: ECOCOOL R-AFC 1515 JLR

Organic polysulphide	No data available.
tert. alkanolamine, ionic equilibrium with acids	No data available.
tert. alkanolamine, ionic equilibrium with acids	No data available.
Oxazolidine derivative	No data available.
Fatty alcohol, ethoxylated	No data available.
Boric acid	No data available.
Pyrithione, sodium salt	No data available.
Iodobutylcarbamate	No data available.

Other Adverse Effects: No data available.

SECTION 12: Ecological information

12.1 Toxicity

Acute toxicity

Fish

Product: No data available.

Specified substance(s)

Organic polysulphide	No data available.
tert. alkanolamine, ionic equilibrium with acids	LC 50 (Fish, 96 h): 29 mg/l
tert. alkanolamine, ionic equilibrium with acids	LC 50 (Fish, 96 h): 147 mg/l
Oxazolidine derivative	LC 50 (Fish, 96 h): 57,7 mg/l
Fatty alcohol, ethoxylated	LC 50 (Fish, 96 h): 1,1 mg/l
Boric acid	LC 50 (Fish, 96 h): 456 mg/l
Pyrithione, sodium salt	LC 50 (Fish, 96 h): 1.300 mg/l
Iodobutylcarbamate	LC 50 (Fish, 96 h): 0,067 mg/l

Aquatic Invertebrates

Product: No data available.

Specified substance(s)

Organic polysulphide	No data available.
tert. alkanolamine, ionic equilibrium with acids	EC 50 (Water Flea, 48 h): 73,7 mg/l
tert. alkanolamine, ionic equilibrium with acids	EC 50 (Water Flea, 48 h): 165 mg/l
Oxazolidine derivative	EC 50 (Water Flea, 48 h): 37,9 mg/l
Fatty alcohol, ethoxylated	No data available.
Boric acid	EC 50 (Water Flea, 48 h): 133 mg/l
Pyrithione, sodium salt	EC 50 (Water Flea, 48 h): 0,15 mg/l
Iodobutylcarbamate	EC 50 (Water Flea, 48 h): 0,16 mg/l

Chronic Toxicity

Fish

Product name: ECOCOOL R-AFC 1515 JLR

Product:	No data available.
Specified substance(s)	
Organic polysulphide	No data available.
tert. alkanolamine, ionic equilibrium with acids	No data available.
tert. alkanolamine, ionic equilibrium with acids	No data available.
Oxazolidine derivative	No data available.
Fatty alcohol, ethoxylated	No data available.
Boric acid	No data available.
Pyrithione, sodium salt	No data available.
Iodobutylcarbamate	NOEC (Fish, 96 h): 0,049 mg/l

Aquatic Invertebrates

Product:	No data available.
Specified substance(s)	
Organic polysulphide	No data available.
tert. alkanolamine, ionic equilibrium with acids	No data available.
tert. alkanolamine, ionic equilibrium with acids	No data available.
Oxazolidine derivative	No data available.
Fatty alcohol, ethoxylated	No data available.
Boric acid	No data available.
Pyrithione, sodium salt	No data available.
Iodobutylcarbamate	EC 50 (Water Flea, 21 d): 0,05 mg/l

Toxicity to Aquatic Plants

Product:	No data available.
Specified substance(s)	
Organic polysulphide	No data available.
tert. alkanolamine, ionic equilibrium with acids	EC 50 (Alga, 72 h): 3,2 mg/l
tert. alkanolamine, ionic equilibrium with acids	EC 50 (Alga, 72 h): 44 mg/l
Oxazolidine derivative	EC 50 (Alga, 72 h): 5,7 mg/l
Fatty alcohol, ethoxylated	No data available.
Boric acid	EC 50 (Alga, 72 h): 229 mg/l
Pyrithione, sodium salt	No data available.
Iodobutylcarbamate	EC 50 (Alga, 72 h): 0,022 mg/l

12.2 Persistence and Degradability

Biodegradation

Product:	No data available.
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Specified substance(s)

Product name: ECOCOOL R-AFC 1515 JLR

Organic polysulphide	No data available.
tert. alkanolamine, ionic equilibrium with acids	No data available.
tert. alkanolamine, ionic equilibrium with acids	No data available.
Oxazolidine derivative	No data available.
Fatty alcohol, ethoxylated	No data available.
Boric acid	No data available.
Pyrrhione, sodium salt	No data available.
Iodobutylcarbamate	Readily biodegradable

12.3 Bioaccumulative Potential

Product: No data available.

Specified substance(s)

Organic polysulphide	No data available.
tert. alkanolamine, ionic equilibrium with acids	No data available.
tert. alkanolamine, ionic equilibrium with acids	No data available.
Oxazolidine derivative	No data available.
Fatty alcohol, ethoxylated	No data available.
Boric acid	No data available.
Pyrrhione, sodium salt	No data available.
Iodobutylcarbamate	No data available.

12.4 Mobility in Soil: No data available.

Known or predicted distribution to environmental compartments

Organic polysulphide	No data available.
tert. alkanolamine, ionic equilibrium with acids	No data available.
tert. alkanolamine, ionic equilibrium with acids	No data available.
Oxazolidine derivative	No data available.
Fatty alcohol, ethoxylated	No data available.
Boric acid	No data available.
Pyrrhione, sodium salt	No data available.
Iodobutylcarbamate	No data available.

12.5 Results of PBT and vPvB assessment: The product does not contain any substances fulfilling the PBT/vPvB criteria.

12.6 Other Adverse Effects: No data available.

Water Hazard Class (WGK): WGK 2: water-endangering.

Product name: ECOCOOL R-AFC 1515 JLR

SECTION 13: Disposal considerations

13.1 Waste treatment methods

General information:	Dispose in accordance with all applicable regulations.
Disposal methods:	When storing used products, ensure that the waste categories and mixing instructions are observed. Do not empty into drains; dispose of this material and its container in a safe way. Product contains in the application concentration traces of iodine containing substances; this can result in an AOX value.

SECTION 14: Transport information

ADR/RID

14.1 UN Number:	—
14.2 UN Proper Shipping Name:	—
14.3 Transport Hazard Class(es)	
Class:	Non-dangerous goods
Label(s):	—
Hazard No. (ADR):	—
Tunnel restriction code:	—
14.4 Packing Group:	—
14.5 Environmental hazards:	—
14.6 Special precautions for user:	—

ADN

14.1 UN Number:	—
14.2 UN Proper Shipping Name:	—
14.3 Transport Hazard Class(es)	
Class:	Non-dangerous goods
Label(s):	—
14.3 Packing Group:	—
14.5 Environmental hazards:	—
14.6 Special precautions for user:	—

IMDG

14.1 UN Number:	—
14.2 UN Proper Shipping Name:	—
14.3 Transport Hazard Class(es)	
Class:	Non-dangerous goods
Label(s):	—
EmS No.:	—
14.3 Packing Group:	—
14.5 Environmental hazards:	—
14.6 Special precautions for user:	—

Product name: ECOCOOL R-AFC 1515 JLR

IATA

- | | |
|------------------------------------|---------------------|
| 14.1 UN Number: | — |
| 14.2 Proper Shipping Name: | — |
| 14.3 Transport Hazard Class(es): | |
| Class: | Non-dangerous goods |
| Label(s): | — |
| 14.4 Packing Group: | — |
| 14.5 Environmental hazards: | — |
| 14.6 Special precautions for user: | — |

14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code: not applicable.

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture:

EU Regulations

Regulation (EC) No. 2037/2000 Substances that deplete the ozone layer: none

Regulation (EC) No. 850/2004 on persistent organic pollutants: none

15.2 Chemical safety assessment: No Chemical Safety Assessment has been carried out.

SECTION 16: Other information

Revision Information: Vertical lines in the margin indicate an amendment.

Wording of the H-statements in section 2 and 3

- | | |
|--------|---|
| H226 | Flammable liquid and vapor. |
| H302 | Harmful if swallowed. |
| H311 | Toxic in contact with skin. |
| H312 | Harmful in contact with skin. |
| H314 | Causes severe skin burns and eye damage. |
| H315 | Causes skin irritation. |
| H317 | May cause an allergic skin reaction. |
| H318 | Causes serious eye damage. |
| H319 | Causes serious eye irritation. |
| H331 | Toxic if inhaled. |
| H332 | Harmful if inhaled. |
| H335 | May cause respiratory irritation. |
| H360Df | May damage the unborn child. Suspected of damaging fertility. |
| H400 | Very toxic to aquatic life. |
| H410 | Very toxic to aquatic life with long lasting effects. |
| H413 | May cause long lasting harmful effects to aquatic life. |

Other information: The classification is in line with current EC lists. It is expanded, however, by information from technical literature and by information furnished by supplier companies. The classification results from the Conventional Method mentioned in regulation EU 1272/2008 (CLP).

Product name: ECOCOOL R-AFC 1515 JLR

Revision Date: 22.03.2016

Disclaimer: The data contained in this safety data sheet are based on our current knowledge and experience and are given to the best of our knowledge and belief. It characterizes the product only with regard to safety requirements for handling, transport and disposal. The data do not describe the product's properties (tech. product specification). Neither should any agreed property nor the suitability of the product for any specific technical application be deduced from the data contained in this safety data sheet. Modifications on this document are not allowed. The data are not transferable to other products. In the case of mixing the product with other products or in the case of processing, the data in this safety data sheet are not necessarily valid for the new-made material. It is the responsibility of the recipient of the product to observe federal, state and local law. Please contact us to obtain up-to-date safety data sheets. This document was issued electronically and has no signature.