Conforms to REGULATIONS FOR HAZARDOUS CHEMICAL AGENTS, 2021, Government Gazette 44348

SAFETY DATA SHEET



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

1.1 Product identifier	
Product name	Castrol Radicool SF
Product code	467414-X101
SDS #	467414
Product type	Liquid.

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

C: Consumer use PC04: An	ti-freeze and de-icing products
Use of the substance/	Coolant and antifreeze.
mixture	For specific application advice see appropriate Technical Data Sheet or consult our company representative.

1.3 Details of the supplier of the safety data sheet

Supplier	BP Southern Africa (Pty)Ltd 199 Oxford Road Oxford Parks Dunkeld, 2196 South Africa
E-mail address	Product Technical Helpdesk: 0800 111 551 MSDSadvice@bp.com

1.4 Emergency telephone number				
EMERGENCY	Tygerberg Poison Centre: 0861 555 777			
TELEPHONE NUMBER	Carechem: +27 21 300 2732 (24/7)			

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Product definitionMixtureAcute Tox. 4, H302STOT RE 2, H373 (kidneys)See Section 16 for the full text of the H statements declared above.

See sections 11 and 12 for more detailed information on health effects and symptoms and environmental hazards.

2.2 Label elements

Hazard pictograms



Signal word	Warning
Hazard statements	₩302 - Harmful if swallowed.
	H373 - May cause damage to organs through prolonged or repeated exposure. (kidneys)
Precautionary statements	
General	P102 - Keep out of reach of children.
	P101 - If medical advice is needed, have product container or label at hand.
Prevention	P260 - Do not breathe vapour.
	P270 - Do not eat, drink or smoke when using this product.
	P264 - Wash hands thoroughly after handling.
Response	P301 + P312, P330 - IF SWALLOWED: Call a POISON CENTER or doctor if you feel unwell.
	Rinse mouth.
Storage	Not applicable.
Disposal	P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.

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SECTION 2: Hazards identification

Hazardous ingredients Supplemental label elements Ethylene glycol Not applicable.

2.3 Other hazards

SECTION 3: Composition/information on ingredients

Mixture

3.2 Mixtures

Product definition

Ethylene glycol Corrosion inhibitor.

Product/ingredient name	Identifiers	%	Classification	Specific Conc. Limits, M-factors and ATEs	Туре	
Ethylene glycol	REACH #: 01-2119456816-28 EC: 203-473-3 CAS: 107-21-1 Index: 603-027-00-1	≥90	Acute Tox. 4, H302 STOT RE 2, H373 (kidneys) (oral)	ATE [Oral] = 500 mg/ kg	[1] [2]	
Sodium 2-ethylhexanoate	EC: 243-283-8 CAS: 19766-89-3	≤5	Repr. 1B, H360D	-	[1]	
Methyl-1h-benzotriazole	REACH #: 01-2119979081-35 EC: 249-596-6 CAS: 29385-43-1	<1	Acute Tox. 4, H302 Repr. 2, H361d Aquatic Chronic 2, H411	ATE [Oral] = 500 mg/ kg	[1]	

See Section 16 for the full text of the H statements declared above.

[1] Substance classified with a health or environmental hazard

[2] Substance with a workplace exposure limit

Occupational exposure limits, if available, are listed in Section 8.

SECTION 4: First aid measures

4.1 Description of first aid measures

Eye contact	In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Eyelids should be held away from the eyeball to ensure thorough rinsing. Check for and remove any contact lenses. Get medical attention if irritation develops.
Skin contact	In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. Clean shoes thoroughly before reuse. Get medical attention if irritation develops.
Inhalation	If inhaled, remove to fresh air. Get medical attention if symptoms occur.
Ingestion	Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Get medical attention. If ingested, call a physician or Poison Control Center immediately. Get medical attention urgently informing the doctor that a product containing ethylene glycol has been ingested and specific treatment may be required. Transport casualty together with the product container, its label, or the safety data sheet urgently to hospital. Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately.
Protection of first-aiders	No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

4.2 Most important symptoms and effects, both acute and delayed

See Section 11 for more detailed information on health effects and symptoms.

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Potential acute	e health effects			
Inhalation	Vapour inhalation under aml pressure.	pient conditions is not normally a	problem due to low	vapour
Ingestion	acidosis, kidney damage, ce	ene glycol: Ingestion of ethylene ntral nervous system depression imately 100 ml (3.4 ounces for a	, and convulsions. ⊺	
Skin contact	No known significant effects	or critical hazards.		
Eye contact	Eye contact No known significant effects or critical hazards.			
Delayed and im	nmediate effects as well as chronic effects fr	om short and long-term expos	ure	
Inhalation	Overexposure to the inhalatio respiratory tract.	n of airborne droplets or aerosol	s may cause irritatio	n of the
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SECTION 4: First aid measures			
Ingestion	Ingestion of large quantities may cause nausea and diarrhoea.		
Skin contact	Prolonged or repeated contact can defat the skin and lead to irritation and/or dermatitis.		
Eye contact	e contact Potential risk of transient stinging or redness if accidental eye contact occurs.		
4.3 Indication of any immedia	te medical attention and special treatment needed		
Notes to physician			
Specific treatments	Ethylene Glycol: Gastric irrigation, ethanol or fomepizole may have value in treatment. Consult physician.		
SECTION 5: Firefight	ing measures		
5.1 Extinguishing media			
Suitable extinguishing mediaIn case of fire, use water fog, alcohol resistant foam, dry chemical or carbon dioxide extinguisher or spray.			
Unsuitable extinguishing mediaDo not use water jet. The use of a water jet may cause the fire to spread by splashing the burning product.			
5.2 Special hazards arising from the substance or mixture			
Hazards from the substance or mixture	In a fire or if heated, a pressure increase will occur and the container may burst.		
Hazardous combustion	Combustion products may include the following:		
products	carbon oxides (CO, CO ₂) (carbon monoxide, carbon dioxide) metal oxide/oxides		
5.3 Advice for firefighters			
Special precautions for fire-fighters	No action shall be taken involving any personal risk or without suitable training. Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire.		
Special protective equipment for fire-fighters Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire- fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.			

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

o. i i cisonai precautions, prote	cure equipment and emergency procedures
For non-emergency personnel	Contact emergency personnel. No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Floors may be slippery; use care to avoid falling. Avoid breathing vapour or mist. Provide adequate ventilation. Put on appropriate personal protective equipment.
For emergency responders	Entry into a confined space or poorly ventilated area contaminated with vapour, mist or fume is extremely hazardous without the correct respiratory protective equipment and a safe system of work. Wear self-contained breathing apparatus. Wear a suitable chemical protective suit. Chemical resistant boots. See also the information in "For non-emergency personnel".
6.2 Environmental precautions	Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
6.3 Methods and material for co	entainment and cleaning up
Small spill	Stop leak if without risk. Move containers from spill area. Absorb with an inert material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
Large spill	Stop leak if without risk. Move containers from spill area. Approach the release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations. Contaminated absorbent material may pose the same hazard as the spilt product. Dispose of via a licensed waste disposal contractor.
6.4 Reference to other sections	See Section 1 for emergency contact information. See Section 5 for firefighting measures. See Section 8 for information on appropriate personal protective equipment. See Section 12 for environmental precautions. See Section 13 for additional waste treatment information.

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SECTION 7: Handling and storage

7.1 Precautions for safe har	ndling
Protective measures	Put on appropriate personal protective equipment. Do not breathe vapour or mist. Do not ingest. Avoid contact with eyes, skin and clothing. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Do not reuse container. Empty containers retain product residue and can be hazardous.
Advice on general occupational hygiene	Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Wash thoroughly after handling. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
7.2 Conditions for safe storage, including any incompatibilities	Store in accordance with local regulations. Store in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10). Keep away from heat and direct sunlight. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Store and use only in equipment/ containers designed for use with this product. Do not store in unlabelled containers.
Not suitable	Prolonged exposure to elevated temperature
7.3 Specific end use(s)	
Recommendations	See section 1.2 and Exposure scenarios in annex, if applicable.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limits

Ethylene glycol

EU OEL (Europe). Absorbed through skin.

TWA: 20 ppm 8 hours. Issued/Revised: 6/2000 TWA: 52 mg/m³ 8 hours. Issued/Revised: 6/2000 STEL: 40 ppm 15 minutes. Issued/Revised: 6/2000 STEL: 104 mg/m³ 15 minutes. Issued/Revised: 6/2000

Whilst specific OELs for certain components may be shown in this section, other components may be present in any mist, vapour or dust produced. Therefore, the specific OELs may not be applicable to the product as a whole and are provided for guidance only.

Recommended monitoring procedures Reference should be made to monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) European Standard EN 482 (Workplace atmospheres - General requirements for the performance of procedures for the measurement of chemical agents) Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

Biological exposure indices

Product/ingredient name

Exposure indices

No exposure indices known.

Derived No Effect Level

Product/ingredient name	Туре	Expo	osure	Value	Population	Effects
Ethylene glycol	DNEL	Long term Inhalation	-	35 mg/m³	Workers	Local
	DNEL	Long term Dermal	-	106 mg/kg bw/ day	Workers	Systemic
	DNEL	Long term Inhalation	-	7 mg/m³	General population	Local
	DNEL	Long term Dermal	-	53 mg/kg bw/ day	General population	Systemic
Sodium 2-ethylhexanoate	DNEL	Long term Inhalation	-	14 mg/m ³	Workers	Systemic
	DNEL	Long term Dermal	-	2 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	-	3.5 mg/m ³	General population	Systemic
	DNEL	Long term Dermal	-	1 mg/kg bw/day	General population	Systemic
	DNEL	Long term Oral	-	1 mg/kg bw/day	General population	Systemic

Product/ingredient name Compartment Detail Value Method Detail Sodium 2-ethylhexanoate Fresh water 0.36 mg/l Marine water 0.36 mg/l

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SECTION 8: Exposure controls/personal protection

8.2 Exposure controls	
Appropriate engineering controls	Provide exhaust ventilation or other engineering controls to keep the relevant airborne concentrations below their respective occupational exposure limits. All activities involving chemicals should be assessed for their risks to health, to ensure exposures are adequately controlled. Personal protective equipment should only be considered after other forms of control measures (e.g. engineering controls) have been suitably evaluated. Personal protective equipment should conform to appropriate standards, be suitable for use, be kept in good condition and properly maintained. Your supplier of personal protective equipment should be consulted for advice on selection and appropriate standards. For further information contact your national organisation for standards. The final choice of protective equipment will depend upon a risk assessment. It is important to ensure that all items of personal protective equipment are compatible.
Individual protection measure	<u>15</u>
Hygiene measures	Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Ensure that eyewash stations and safety showers are close to the workstation location.
Respiratory protection	In case of insufficient ventilation, wear suitable respiratory equipment. The correct choice of respiratory protection depends upon the chemicals being handled, the conditions of work and use, and the condition of the respiratory equipment. Safety procedures should be developed for each intended application. Respiratory protection equipment should therefore be chosen in consultation with the supplier/manufacturer and with a full assessment of the working conditions.
Eye/face protection	Safety glasses with side shields.
Skin protection	
Hand protection	General Information:
	Because specific work environments and material handling practices vary, safety procedures should be developed for each intended application. The correct choice of protective gloves depends upon the chemicals being handled, and the conditions of work and use. Most gloves provide protection for only a limited time before they must be discarded and replaced (even the best chemically resistant gloves will break down after repeated chemical exposures).
	Gloves should be chosen in consultation with the supplier / manufacturer and taking account of a full assessment of the working conditions.
	Recommended: Butyl gloves. Neoprene gloves. Breakthrough time:
	Breakthrough time data are generated by glove manufacturers under laboratory test conditions and represent how long a glove can be expected to provide effective permeation resistance. It is important when following breakthrough time recommendations that actual workplace conditions are taken into account. Always consult with your glove supplier for up-to-date technical information on breakthrough times for the recommended glove type. Our recommendations on the selection of gloves are as follows:
	Continuous contact:
	Gloves with a minimum breakthrough time of 240 minutes, or >480 minutes if suitable gloves can be obtained.
	If suitable gloves are not available to offer that level of protection, gloves with shorter breakthrough times may be acceptable as long as appropriate glove maintenance and replacement regimes are determined and adhered to.
	Short-term / splash protection:
	Recommended breakthrough times as above. It is recognised that for short-term, transient exposures, gloves with shorter breakthrough times may commonly be used. Therefore, appropriate maintenance and replacement regimes must be determined and rigorously followed.
	Glove Thickness:
	For general applications, we recommend gloves with a thickness typically greater than 0.35 mm
	It should be emphasised that glove thickness is not necessarily a good predictor of glove resistance to a specific chemical, as the permeation efficiency of the glove will be dependent on the exact composition of the glove material. Therefore, glove selection should also be based on consideration of the task requirements and knowledge of breakthrough times. Glove thickness may also vary depending on the glove manufacturer, the glove type and the glove model. Therefore, the manufacturers' technical data should always be taken into account to ensure selection of the most appropriate glove for the task.

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SECTION 8: Exposure controls/personal protection

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Note: Depending on the activity being conducted, gloves of varying thickness may be required for specific tasks. For example:
• Thinner gloves (down to 0.1 mm or less) may be required where a high degree of manual dexterity is needed. However, these gloves are only likely to give short duration protection and would normally be just for single use applications, then disposed of.
• Thicker gloves (up to 3 mm or more) may be required where there is a mechanical (as well as a chemical) risk i.e. where there is abrasion or puncture potential.
Use of protective clothing is good industrial practice. Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. Cotton or polyester/cotton overalls will only provide protection against light superficial contamination that will not soak through to the skin. Overalls should be laundered on a regular basis. When the risk of skin exposure is high (e.g. when cleaning up spillages or if there is a risk of splashing) then chemical resistant aprons and/or impervious chemical suits and boots will be required.
Respiratory protection: EN 529 Gloves: EN 420, EN 374 Eye protection: EN 166 Filtering half-mask: EN 149 Filtering half-mask with valve: EN 405 Half-mask: EN 140 plus filter Full-face mask: EN 136 plus filter Particulate filters: EN 143 Gas/combined filters: EN 14387
Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

SECTION 9: Physical and chemical properties

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

9.1 Information on basic physical and chemical properties

9.1 Information on basic physical	and chemical proper	rties						
Physical state	Liquid.							
Colour	Red. [Light]							
Odour	Mild.							
Odour threshold	Not available.							
Melting point/freezing point	Not available.							
Initial boiling point and boiling range	175°C (347°F)							
Flammability	Not available.							
Lower and upper explosion limit	Not available.							
Flash point			Closed	сир		Ореі	n cup	
	Ingredient name	°C	°F	Method	°C	°F	Method	t l
	Ethylene glycol	111	231.8					
Auto-ignition temperature	Ingredient name		°C	°F		Method		
	Ethylene glycol		398	748.4				
Decomposition temperature	Not available.							
рН	7.5 to 9 [Conc. (% v	<i>w</i> /w): 50	0%]					
Kinematic viscosity	Not available.							
Solubility								
	Media		Result					
	water	٢	Aiscible in	water.				
Partition coefficient n-octanol/ water (log value)	Not applicable.							
Vapour pressure								
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SECTION 9: Physical and chemical properties

		Vapou	r Pressu	re at 20°C	Vapour pressure at 50°C		
	Ingredient name	mm Hg	kPa	Method	mm Hg	kPa	Method
	⊑ thylene glycol	0.09	0.012				
	Sodium 2-ethylhexanoate	<0.00000008	<0.000000011		<0.00000008	<0.000000011	
	Water	23.8	3.2				
Density and/or Relative density	/ 1100 kg/m³ (1.1 g/c	:m³) at 15	.6°C				
Relative vapour density	Not available.						
Particle characteristics							
Median particle size	Not applicable.						
9.2 Other information							
Evaporation rate	Not available.						
Explosive properties	Not available.						
Oxidising properties	Not available.						
SECTION 10: Stability a	and reactivity						
10.1 Reactivity	No specific test data av materials for additional			duct. Refer	to Conditi	ions to av	void and Incompatib
10.2 Chemical stability	The product is stable.						
10.3 Possibility of hazardous reactions	Under normal condition Under normal condition						
10.4 Conditions to avoid	Avoid excessive heat.						
10.5 Incompatible materials	Reactive or incompatible with the following materials: oxidising materials. Hazardous reactions are possible with concentrated mineral acids, strong oxidizing agents, alkali metals and isocyanates.Combustible material.						
10.6 Hazardous	Under normal condition	is of stora	de and u	se. hazardo	ous decom	position	products should not

SECTION 11: Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity estimates

Product/ingredient name		Oral (mg/ kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapours) (mg/l)	Inhalation (dusts and mists) (mg/l)
Castrol Radicool SF		549.2	N/A	N/A	N/A	N/A
Ethylene glycol		500	N/A	N/A	N/A	N/A
Methyl-1h-benzotriazole		500	N/A	N/A	N/A	N/A
nformation on likely	Routes of entry antic	ipated: Derma	al, Inhalation	, Eyes.		
outes of exposure						
otential acute health effects	<u>8</u>					
Inhalation	Vapour inhalation under ambient conditions is not normally a problem due to low vapou pressure.					
Ingestion	Harmful if swallowed. Ethylene glycol: Ingestion of ethylene glycol can cause metabolic acidosis, kidney damage, central nervous system depression, and convulsions. The estimate human lethal dose is approximately 100 ml (3.4 ounces for an adult).					
Skin contact	No known significant	effects or cri	tical hazards.			
Eye contact	No known significant	effects or crit	tical hazards.			
ymptoms related to the phy	vsical, chemical and to	xicological o	haracteristi	<u>cs</u>		
Inhalation						
Ingestion	No specific data.					
Skin contact	No specific data.					
Eye contact	No specific data.					
elayed and immediate effect	•	effects from	short and lo	ng-term exp	<u>osure</u>	
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SECTION 11: Toxicological information

Inhalation	Overexposure to the inhalation of airborne droplets or aerosols may cause irritation of the respiratory tract.
Ingestion	Ingestion of large quantities may cause nausea and diarrhoea.
Skin contact	Prolonged or repeated contact can defat the skin and lead to irritation and/or dermatitis.
Eye contact	Potential risk of transient stinging or redness if accidental eye contact occurs.
Potential chronic health eff	<u>ects</u>
General	May cause damage to organs through prolonged or repeated exposure. May cause damage to organs through prolonged or repeated exposure. (kidney)
Carcinogenicity	No known significant effects or critical hazards.
Mutagenicity	No known significant effects or critical hazards.
Developmental effects	Birth defects and decreased fetal weight have been observed in laboratory animals fed ethylene glycol in large amounts repeatedly during pregnancy.
Fertility effects	No known significant effects or critical hazards.

11.2 Information on other hazards

11	.2.2	Other	info	ormation

Not available.

SECTION 12: Ecological information

12.1 Toxicity

Environmental hazards Not classified as dangerous

12.2 Persistence and degradability

Expected to be biodegradable.

12.3 Bioaccumulative potential

This product is not expected to bioaccumulate through food chains in the environment.

12.4 Mobility in soil	
Soil/water partition coefficient (K _{oc})	Not available.
Mobility	Spillages may penetrate the soil causing ground water contamination.

12.5 Results of PBT and vPvB assessment

Product does not meet the criteria for PBT or vPvB according to Regulation (EC) No. 1907/2006, Annex XIII.

Other ecological information	Miscible in water.
12.7 Other adverse effects	No known significant effects or critical hazards.

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SECTION 13: Disposal considerations

13.1 Waste treatment methods					
Product					
Methods of disposal	Undiluted fluid Where possible, a authorised person/licensed waste Diluted Fluid Diluted fluid should local regulations. Dispose under waste disposal contractor.	disposal on disc	contractor in accordan harged into sewage s	ce with local re ystems unless	egulations. provided for by
Hazardous waste	Yes.				
Packaging					
Methods of disposal	Where possible, arrange for produced licensed waste disposal contractor		, ,		d person/
Special precautions	This material and its container mu handling emptied containers that I liners may retain some product re- contain flammable product residue Avoid dispersal of spilt material ar	nave not be sidues. En es and vap	een cleaned or rinsed opty containers repres our. Never weld, sold	out. Empty co sent a fire haza er or braze em	ontainers or ard as they may apty containers.
Other information	Undiluted fluidWhere possible, an person/ licensed waste disposal c	U 1	2		an authorised
	Diluted FluidDiluted fluid should no local regulations. Dispose under of waste disposal contractor.				
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SECTION 13: Disposal considerations

References

Commission 2014/955/EU Directive 2008/98/EC

SECTION 14: Transport information						
	ADR/RID	ADN	IMDG	ΙΑΤΑ		
14.1 UN number or ID number	Not regulated.	Not regulated.	Not regulated.	Not regulated.		
14.2 UN proper shipping name	-	-	-	-		
14.3 Transport hazard class(es)	-	-	-	-		
14.4 Packing group	-	-	-	-		
14.5 Environmental hazards	No.	No.	No.	No.		
Additional information	-	-	-	-		

14.6 Special precautions for Not available. user

14.7 Maritime transport in Not available. bulk according to IMO instruments

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture **Other regulations REACH Status** For the REACH status of this product please consult your company contact, as identified in Section 1. Not determined. **United States inventory** (TSCA 8b) Australia inventory (AIIC) All components are listed or exempted. **Canada inventory** All components are listed or exempted. China inventory (IECSC) All components are listed or exempted. Japan inventory (CSCL) All components are listed or exempted. Korea inventory (KECI) All components are listed or exempted. **Philippines inventory** All components are listed or exempted. (PICCS) **Taiwan Chemical** All components are listed or exempted. Substances Inventory (TCSI)

15.2 Chemical safety	A Chemical Safety Assessment has been carried out for one or more of the substances within
assessment	this mixture. A Chemical Safety Assessment has not been carried out for the mixture itself.

SECTION 16: Other information

Abbreviations and acronyms Product name Castrol Radicood	ADN = European Provisions concerning the International Carriage of Dangerous Goods by Inland Waterway ADR = The European Agreement concerning the International Carriage of Dangerous Goods Road ATE = Acute Toxicity Estimate BCF = Bioconcentration Factor CAS = Chemical Abstracts Service CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008] CSA = Chemical Safety Assessment CSR = Chemical Safety Report DMEL = Derived Minimal Effect Level			rous Goods by	
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SECTION 16: Other information

SECTION 16: Other	Information
	DNEL = Derived No Effect Level
	EINECS = European Inventory of Existing Commercial chemical Substances
	ES = Exposure Scenario
	EUH statement = CLP-specific Hazard statement
	EWC = European Waste Catalogue
	GHS = Globally Harmonized System of Classification and Labelling of Chemicals
	IATA = International Air Transport Association
	IBC = Intermediate Bulk Container
	IMDG = International Maritime Dangerous Goods
	LogPow = logarithm of the octanol/water partition coefficient
	MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as
	modified by the Protocol of 1978. ("Marpol" = marine pollution)
	OECD = Organisation for Economic Co-operation and Development
	PBT = Persistent, Bioaccumulative and Toxic
	PNEC = Predicted No Effect Concentration
	REACH = Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation [Regulation (EC) No. 1907/2006]
	RID = The Regulations concerning the International Carriage of Dangerous Goods by Rail RRN = REACH Registration Number
	SADT = Self-Accelerating Decomposition Temperature
	SVHC = Substances of Very High Concern
	STOT-RE = Specific Target Organ Toxicity - Repeated Exposure
	STOT-SE = Specific Target Organ Toxicity - Single Exposure
	TWA = Time weighted average
	UN = United Nations
	UVCB = Complex hydrocarbon substance
	VOC = Volatile Organic Compound
	vPvB = Very Persistent and Very Bioaccumulative
	Varies = may contain one or more of the following 64741-88-4 / RRN 01-2119488706-23,
	64741-89-5 / RRN 01-2119487067-30, 64741-95-3 / RRN 01-2119487081-40, 64741-96-4/ RRN
	01-2119483621-38, 64742-01-4 / RRN 01-2119488707-21, 64742-44-5 / RRN 01-2119985177-24, 64742-45-6, 64742-52-5 / RRN 01-2119467170-45, 64742-53-6 / RRN
	01-2119480375-34, 64742-54-7 / RRN 01-2119484627-25, 64742-55-8 / RRN
	01-2119460373-34, 64742-34-77 RRN 01-2119464627-23, 64742-33-67 RRN 01-2119487077-29, 64742-56-9 / RRN 01-2119480132-48, 64742-57-0 / RRN
	01-2119480477-29, 64742-58-1, 64742-62-7 / RRN 01-2119480472-38, 64742-63-8,
	64742-65-0 / RRN 01-2119471299-27, 64742-70-7 / RRN 01-2119487080-42, 72623-85-9 /
	RRN 01-2119555262-43, 72623-86-0 / RRN 01-2119474878-16, 72623-87-1 / RRN
	01-2119474889-13
History	
Date of issue/ Date of	15/01/2024.
revision	
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Prepared by	Product Stewardship

✓ Indicates information that has changed from previously issued version.

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