SAFETY DATA SHEET



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

1.1 Product identifier

Product name Castrol Radicool SF UFI: 5RV2-301V-C008-32YP

Product code 467414-BE07 SDS # 467414 Product type Liquid.

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

C: Consumer use PC04: Anti-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 Castrol Holdings Europe B.V.,

d'Arcyweg 76, 3198NA

Europoort Rotterdam

CASTROL ESPAÑA, S.L.U. Calle Quintanadueñas, 6 Edificio Arqborea 28050 Las Tablas, Madrid

+34 902 400 702

E-mail address MSDSadvice@bp.com

1.4 Emergency telephone number

EMERGENCY Carechem: +44 (0) 1235 239 670 (24/7)

TELEPHONE NUMBER

Spain Poison Center Poisons Information Service (National Institute of Toxicology and Forensic Sciences)

Phone: +34 91 562 04 20 Information in Spanish (24h / 365 days). Only for providing health response in case of emergency.

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Product definition Mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Acute Tox. 4, H302 Repr. 1B, H360D STOT RE 2, H373

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

UFI: 5RV2-301V-C008-32YP

Hazard pictograms





Signal word Danger

Hazard statements H302 - Harmful if swallowed.

H360D - May damage the unborn child.

H373 - May cause damage to organs through prolonged or repeated exposure.

Product nameCastrol Radicool SFProduct code467414-BE07Page: 1/12Version 3.01Date of issue 31 August 2023FormatSpainLanguageENGLISH

Date of previous issue 17 August 2023. (Spain)

SECTION 2: Hazards identification

Precautionary statements

General P102 - Keep out of reach of children.

P101 - If medical advice is needed, have product container or label at hand.

Prevention P201 - Obtain special instructions before use.

P280 - Wear protective gloves, protective clothing, eye protection, face protection, or hearing

protection.

P260 - Do not breathe vapour.

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

P264 - Wash hands thoroughly after handling.

Response P308 + P313 - IF exposed or concerned: Get medical attention.

P301 + P312, P330 - IF SWALLOWED: Call a POISON CENTER or doctor if you feel unwell.

Rinse mouth.

Storage P405 - Store locked up.

Disposal P501 - Dispose of contents and container in accordance with all local, regional, national and

international regulations.

Hazardous ingredients Ethylene glycol

Sodium 2-ethylhexanoate

Supplemental label

elements

Not applicable.

EU Regulation (EC) No. 1907/2006 (REACH)

Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles Restricted to professional users.

Special packaging requirements

Containers to be fitted with child-resistant

fastenings

Yes, applicable.

Tactile warning of danger Yes, applicable.

2.3 Other hazards

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.

Product meets the criteria for PBT or vPvB according to Regulation (EC) No. 1907/2006, Annex XIII This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Product definition Mixture

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.

<u>Type</u>

[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.

Product nameCastrol Radicool SFProduct code467414-BE07Page: 2/12Version 3.01Date of issue 31 August 2023FormatSpainLanguageENGLISHDate of previous issue17 August 2023.(Spain)

SECTION 4: First aid measures

4.1 Description of first aid measures

In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Eyelids Eye contact

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.

Inhalation If inhaled, remove to fresh air. Get medical attention immediately.

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 immediately. 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.

No action shall be taken involving any personal risk or without suitable training. It may be **Protection of first-aiders**

dangerous to the person providing aid to give mouth-to-mouth resuscitation.

4.2 Most important symptoms and effects, both acute and delayed

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

Potential acute health effects

Inhalation Vapour inhalation under ambient conditions is not normally a problem due to low vapour

Ingestion Harmful if swallowed. Ethylene glycol: Ingestion of ethylene glycol can cause metabolic

acidosis, kidney damage, central nervous system depression, and convulsions. The estimated

human lethal dose is approximately 100 ml (3.4 ounces for an adult).

Skin contact No known significant effects or critical hazards. Eye contact No known significant effects or critical hazards.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

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.

Potential risk of transient stinging or redness if accidental eye contact occurs. Eye contact

4.3 Indication of any immediate 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: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing In case of fire, use water fog, alcohol resistant foam, dry chemical or carbon dioxide

media extinguisher or spray.

Unsuitable extinguishing

media

Do 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 In a fire or if heated, a pressure increase will occur and the container may burst.

substance or mixture

Hazardous combustion Combustion products may include the following:

products

carbon oxides (CO, CO2) (carbon monoxide, carbon dioxide)

metal oxide/oxides

5.3 Advice for firefighters

Special precautions for

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. fire-fighters

Product name Castrol Radicool SF Product code 467414-BE07 Page: 3/12 Language ENGLISH Version 3.01 Date of issue 31 August 2023 **Format Spain**

(Spain) 17 August 2023. Date of previous issue

SECTION 5: Firefighting measures

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

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 containment 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.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Protective measures

Put on appropriate personal protective equipment. Avoid exposure - obtain special instructions before use. Avoid exposure during pregnancy. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not breathe vapour or mist. Do not ingest. If during normal use the material presents a respiratory hazard, use only with adequate ventilation or wear appropriate respirator. 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). Store locked up. 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.

Product nameCastrol Radicool SFProduct code467414-BE07Page: 4/12Version 3.01Date of issue 31 August 2023FormatSpainLanguageENGLISHDate of previous issue17 August 2023.(Spain)

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limits

Product/ingredient name

Exposure limit values

Ethylene glycol

National institute of occupational safety and health (Spain). Absorbed through skin.

TWA: 20 ppm 8 hours. Issued/Revised: 2/2011 TWA: 52 mg/m³ 8 hours. Issued/Revised: 2/2011 STEL: 40 ppm 15 minutes. Issued/Revised: 2/2011 STEL: 104 mg/m³ 15 minutes. Issued/Revised: 2/2011

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

No exposure indices known.

Exposure indices

Derived No Effect Level

Product/ingredient name	Type	Expo	sure	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/m³	Workers	Systemic
	DNEL	Long term Dermal	-	2 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	-	3.5 mg/m³	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

Predicted No Effect Concentration

Product/ingredient name	Compartment Detail	Value	Method Detail
Sodium 2-ethylhexanoate	Fresh water Marine water	0.36 mg/l 0.036 mg/l	-

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 measures

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.

Product nameCastrol Radicool SFProduct code467414-BE07Page: 5/12Version 3.01Date of issue 31 August 2023FormatSpainLanguageENGLISHDate of previous issue17 August 2023.(Spain)

SECTION 8: Exposure controls/personal protection

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

Skin protection

Hand protection

Safety glasses with side shields.

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.

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.

Product nameCastrol Radicool SFProduct code467414-BE07Page: 6/12Version 3.01Date of issue 31 August 2023FormatSpainLanguageENGLISHDate of previous issue17 August 2023.(Spain)

SECTION 8: Exposure controls/personal protection

Skin and body 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

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 **Refer to standards:**

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

Environmental exposure

controls

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

Physical state Liquid. Colour Red. [Light] Odour Mild.

Odour threshold Not available. Melting point/freezing point Not available. Initial boiling point and boiling 175°C (347°F)

range

Not available. **Flammability** Lower and upper explosion Not available.

limit Flash point

	Closed cup			Open cup		
Ingredient name	°C	°F	Method	°C	°F	Method
Ethylene glycol	111	231.8				
Ingredient name		°C	°F		Method	
Ethylene glycol		398	748.4			

Decomposition temperature

Auto-ignition temperature

Not available.

7.5 to 9 [Conc. (% w/w): 50%]

Kinematic viscosity Not available.

Solubility

pН

Media	Result
water	Miscible in water.

Partition coefficient n-octanol/ water (log value)

Not applicable.

Vapour pressure

	Vapour Pressure at 20°C			Vapour pressure at 50°C		
Ingredient name	mm Hg	kPa	Method	mm Hg	kPa	Method
Ethylene glycol	0.09	0.012				
Sodium 2-ethylhexanoate	<0.000000008	<0.000000011		<0.000000008	<0.000000011	
Water	23.8	3.2				

Density and/or Relative density

Not available.

Product name Castrol Radicool SF Product code 467414-BE07 Page: 7/12 Language ENGLISH Version 3.01 Date of issue 31 August 2023 **Format Spain** (Spain) 17 August 2023. Date of previous issue

SECTION 9: Physical and chemical properties

Density and/or Relative density 1100 kg/m³ (1.1 g/cm³) at 15.6°C

Relative vapour density Not available.

Particle characteristics

Median particle size Not applicable.

9.2 Other information

Evaporation rateNot available.Explosive propertiesNot available.Oxidising propertiesNot available.

SECTION 10: Stability and reactivity

10.1 Reactivity

No specific test data available for this product. Refer to Conditions to avoid and Incompatible

materials for additional information.

10.2 Chemical stability The product is stable.

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 conditions of storage and use, hazardous decomposition products should not be

decomposition products produced.

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 Ethylene glycol Methyl-1h-benzotriazole	549.2	N/A	N/A	N/A	N/A
	500	N/A	N/A	N/A	N/A
	500	N/A	N/A	N/A	N/A

Information on likely routes of exposure

Routes of entry anticipated: Dermal, Inhalation, Eyes.

Potential acute health effects

Inhalation Vapour inhalation under ambient conditions is not normally a problem due to low vapour

pressure.

Ingestion Harmful if swallowed. Ethylene glycol: Ingestion of ethylene glycol can cause metabolic

acidosis, kidney damage, central nervous system depression, and convulsions. The estimated

human lethal dose is approximately 100 ml (3.4 ounces for an adult).

Skin contact

No known significant effects or critical hazards.

Eye contact

No known significant effects or critical hazards.

Symptoms related to the physical, chemical and toxicological characteristics

Inhalation May be harmful by inhalation if exposure to vapour, mists or fumes resulting from thermal

decomposition products occurs.

IngestionNo specific data.Skin contactNo specific data.Eye contactNo specific data.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

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.

Product nameCastrol Radicool SFProduct code467414-BE07Page: 8/12Version 3.01Date of issue 31 August 2023FormatSpainLanguageENGLISH

Date of previous issue 17 August 2023. (Spain)

SECTION 11: Toxicological information

Potential chronic health effects

General May cause damage to organs through prolonged or repeated exposure. May cause damage to

organs through prolonged or repeated exposure. (kidney)

CarcinogenicityNo known significant effects or critical hazards.MutagenicityNo known significant effects or critical hazards.

Developmental effects May damage the unborn child. 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

11.2.1 Endocrine disrupting properties

Not available.

Remarks - Endocrine disruptor - Health 11.2.2 Other information

Not available

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

Not available.

coefficient (Koc)

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.

12.6 Endocrine disrupting

properties

Mobility

Not available.

Remarks - Endocrine disruptor - Environment

Not available

Other ecological information

Miscible in water.

12.7 Other adverse effects

No known significant effects or critical hazards.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product

Methods of disposal

Undiluted fluid Where possible, arrange for product to be recycled. Dispose of via an authorised person/ licensed waste disposal contractor in accordance with local regulations. Diluted Fluid Diluted fluid should not be discharged into sewage systems unless provided for by local regulations. Dispose under conditions approved by the local authority or via a licensed

waste disposal contractor.

Hazardous waste Yes.
European waste catalogue (EWC)

Waste code	Waste designation
16 01 14*	antifreeze fluids containing hazardous substances

However, deviation from the intended use and/or the presence of any potential contaminants may require an alternative waste disposal code to be assigned by the end user.

Packaging

Product nameCastrol Radicool SFProduct code467414-BE07Page: 9/12Version 3.01Date of issue 31 August 2023FormatSpainLanguageENGLISHDate of previous issue17 August 2023.(Spain)

SECTION 13: Disposal considerations

Methods of disposal

Where possible, arrange for product to be recycled. Dispose of via an authorised person/

licensed waste disposal contractor in accordance with local regulations.

Special precautions This material and its container must be disposed of in a safe way. Care should be taken when

handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Empty containers represent a fire hazard as they may contain flammable product residues and vapour. Never weld, solder or braze empty containers. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

Other information Undiluted fluidWhere possible, arrange for product to be recycled.Dispose of via an authorised

person/ licensed waste disposal contractor in accordance with local regulations.

Diluted FluidDiluted fluid should not be discharged into sewage systems unless provided for by local regulations. Dispose under conditions approved by the local authority or via a licensed

waste disposal contractor.

References Commission 2014/955/EU

Directive 2008/98/EC

SECTION 14: Transport information

	ADR/RID	ADN	IMDG	IATA
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 user

Not available.

14.7 Maritime transport in bulk according to IMO instruments

Not available.

SECTION 15: Regulatory information

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

EU Regulation (EC) No. 1907/2006 (REACH)

Annex XIV - List of substances subject to authorisation

Annex XIV

None of the components are listed.

Substances of very high concern

None of the components are listed

EU Regulation (EC) No. 1907/2006 (REACH)

Annex XVII - Restrictions

Restricted to professional users.

on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles

Other regulations

REACH Status The company, as identified in Section 1, sells this product in the EU in compliance with the

current requirements of REACH.

Product name Castrol Radicool SF Product code 467414-BE07 Page: 10/12 Language ENGLISH Version 3.01 Date of issue 31 August 2023 **Format Spain** (Spain) 17 August 2023. Date of previous issue

SECTION 15: Regulatory information

United States inventory

(TSCA 8b)

Not determined.

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. All components are listed or exempted.

Philippines inventory

(PICCS)

Taiwan Chemical Substances Inventory All components are listed or exempted.

(TCSI) Ozone depleting substances (1005/2009/EU)

Not listed. Prior Informed Consent (PIC) (649/2012/EU)

Not listed.

Persistent Organic Pollutants

Not listed.

EU - Water framework directive - Priority substances

None of the components are listed.

Seveso Directive

This product is not controlled under the Seveso Directive.

15.2 Chemical safety assessment

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

SECTION 16: Other information

Abbreviations and acronyms

ADN = European Provisions concerning the International Carriage of Dangerous Goods by Inland Waterway

ADR = The European Agreement concerning the International Carriage of Dangerous Goods by

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 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

Product name Castrol Radicool SF Product code 467414-BE07 Page: 11/12

Language ENGLISH Version 3.01 Date of issue 31 August 2023 **Format Spain**

(Spain) Date of previous issue 17 August 2023.

SECTION 16: Other information

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 01-2119487077-29, 64742-56-9 / RRN 01-2119480132-48, 64742-57-0 / RRN

01-2119489287-22, 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

Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Classif	ication	Justification
Acute Tox. 4, H302 Repr. 1B, H360D STOT RE 2, H373		Calculation method Calculation method Calculation method
Full text of abbreviated H statements	H302 H360D H361d H373	Harmful if swallowed. May damage the unborn child. Suspected of damaging the unborn child. May cause damage to organs through prolonged or repeated exposure. Toxic to agustic life with long leating effects.
Full text of classifications [CLP/GHS]	Acute Tox. 4 Aquatic Chronic 2 Repr. 1B Repr. 2 STOT RE 2	Toxic to aquatic life with long lasting effects. ACUTE TOXICITY - Category 4 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 2 REPRODUCTIVE TOXICITY - Category 1B REPRODUCTIVE TOXICITY - Category 2 SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE - Category 2
<u>History</u>		
Date of issue/ Date of revision	31/08/2023.	
Date of previous issue	17/08/2023.	

✓ Indicates information that has changed from previously issued version.

Product Stewardship

Notice to reader

Prepared by

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