

SAFETY DATA SHEET

CASTROL CHAIN SPRAY O-R

Infosafe No.: HYCRP
ISSUED Date : 15/12/2022
ISSUED by: Castrol Australia Pty Ltd

Section 1 - Identification

Product Identifier

CASTROL CHAIN SPRAY O-R

Product Code

450381-AU19

Company Name

Castrol Australia Pty Ltd (ABN 87 008 459 407)

Address

Level 17, 717 Bourke Street Docklands
VIC 3008 Australia

Telephone/Fax Number

Tel: +61 (03) 9268 4111

Emergency Phone Number

+61 2801 44558 (or 1800 14 14 74 within Australia), Technical Advice Helpline Number: 1300 557 998

Recommended use of the chemical and restrictions on use

Chain lubricant.

For specific application advice see appropriate Technical Data Sheet or consult our company representative.

Other Names

Name	Product Code
CASTROL CHAIN SPRAY O-R	450381

Additional Information

www.castrol.com.au

Section 2 - Hazard(s) Identification

GHS classification of the substance/mixture

Aerosols: Category 1

Signal Word (s)

DANGER

Hazard Statement (s)

H222 Extremely flammable aerosol.

H229 Pressurized container: may burst if heated.

Pictogram (s)

Flame

**Precautionary Statement – Prevention**

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

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P211 Do not spray on an open flame or other ignition source.

P251 Do not pierce or burn, even after use.

Precautionary Statement – Response

Not Applicable

Precautionary Statement – Storage

P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.

Precautionary Statement – Disposal

Not Applicable

Precautionary Statement – General

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

P102 Keep out of reach of children.

Supplemental Information

Not applicable.

Other Information

Other hazards which do not result in classification:

Solvent "sniffing" (abuse) or intentional overexposure to vapours can produce serious central nervous system effects, including unconsciousness, and possibly death.

Section 3 - Composition and Information on Ingredients

Ingredients

Name	CAS	Proportion
propane	74-98-6	$\geq 10 - \leq 30$ %(w/w)
butane	106-97-8	$\geq 10 - \leq 30$ %(w/w)
Base oil - unspecified	-	$\geq 30 - \leq 60$ %(w/w)

Other Information

Substance/mixture: Mixture

Highly refined base oil (IP 346 DMSO extract < 3%). Hydrocarbon solvent Proprietary performance additives.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health and hence require reporting in this section.

The total concentration of ingredients in this product, reported or not in this section, is 100%.

Occupational exposure limits, if available, are listed in Section 8(Exposure Controls/Personal Protection).

Section 4 - First Aid Measures

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. Poisoning very unlikely unless deliberate ingestion of large quantities has occurred. Move exposed person to fresh air. Get medical attention if adverse health effects persist or are severe.

Skin

Wash skin thoroughly with soap and water or use recognised skin cleanser. Remove contaminated clothing and shoes. Wash clothing before reuse. Clean shoes thoroughly before reuse. Get medical attention if symptoms occur.

Eye

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 symptoms occur.

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Advice to Doctor

Treatment should in general be symptomatic and directed to relieving any effects.

Indication of immediate medical attention and special treatment needed if necessary

Specific treatments: No specific treatment.

Protection for First Aiders

No action shall be taken involving any personal risk or without suitable training.

Most important symptoms/effects, acute, delayed and aggravated medical conditions

See Section 11(Toxicological Information) for more detailed information on health effects and symptoms.

Section 5 - Firefighting Measures

Suitable Extinguishing Media

In case of fire, use water fog, alcohol resistant foam, dry chemical or carbon dioxide extinguisher or spray.

Unsuitable Extinguishing Media

Do not use water jet.

Hazards from Combustion Products

Combustion products may include the following:

Metal oxide/oxides

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

Special Protective Equipment for fire fighters

Fire-fighters should wear positive pressure self-contained breathing apparatus (SCBA) and full turnout gear.

Specific hazards arising from the chemical

Bursting aerosol containers may be propelled from a fire at high speed. Extremely flammable aerosol. Gas may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back, causing fire or explosion. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. Runoff to sewer may create fire or explosion hazard.

Hazchem Code

2YE

Decomposition Temperature

Not available.

Precautions in connection with Fire

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. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.

Section 6 - Accidental Release Measures

Emergency Procedures

If specialised clothing is required to deal with the spillage, take note of any information in Section 8(Exposure Controls/Personal Protection) on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

Personal Precautions

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. In the case of aerosols being ruptured, care should be taken due to the rapid escape of the pressurised contents and propellant.

If a large number of containers are ruptured, treat as a bulk material spillage according to the instructions in the clean-up section. Do not touch or walk through spilt material. No flares, smoking or flames in hazard area. Avoid breathing vapour or mist. Provide adequate ventilation. Put on appropriate personal protective equipment. Eliminate all ignition sources.

Clean-up Methods - Small Spillages

Stop leak if without risk. Move containers from spill area. Absorb with an inert material and place in an appropriate waste disposal container. Use spark-proof tools and explosion-proof equipment. Dispose of via a licensed waste disposal contractor.

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Clean-up Methods - Large Spillages

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. Use spark-proof tools and explosion-proof equipment. Contaminated absorbent material may pose the same hazard as the spilt product. Dispose of via a licensed waste disposal contractor.

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).

Section 7 - Handling and Storage

Precautions for Safe Handling

Protective measures: Put on appropriate personal protective equipment (see Section 8). Pressurised container: protect from sunlight and do not expose to temperature exceeding 50°C.

Do not pierce or burn, even after use. Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing gas. Avoid breathing vapour or mist. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment.

Use only non-sparking tools. Empty containers retain product residue and can be hazardous. Keep away from ignition sources such as heat/sparks/open flame. - No smoking. Do not spray on a naked flame or any incandescent material. Product contaminated rags, paper or material used to absorb spillages, represent a fire hazard, and should not be allowed to accumulate. Dispose of safely immediately after use.

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.

Conditions for safe storage, including any incompatibilities

Store in accordance with local regulations. Store in a segregated and approved area. Store in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10). Eliminate all ignition sources. Keep away from heat and direct sunlight. Store and use only in equipment/containers designed for use with this product.

Unsuitable Materials

Not suitable: Prolonged exposure to elevated temperature

Section 8 - Exposure Controls and Personal Protection

Occupational exposure limit values

Control parameters:

Occupational exposure limits

Ingredient name: Base oil - unspecified

Exposure limits:

Safe Work Australia (Australia). [Oil mist, refined mineral]

TWA: 5 mg/m³ 8 hours. Issued/Revised: 5/1995 Form: Mist

Ingredient name: Bpropane

Exposure limits:

ACGIH TLV (United States). Oxygen Depletion [Asphyxiant]. Explosive potential.

Ingredient name: Butane

Exposure limits:

Safe Work Australia (Australia).

TWA: 1900 mg/m³ 8 hours. Issued/Revised: 5/1995

TWA: 800 ppm 8 hours. Issued/Revised: 5/1995

Biological Monitoring

No exposure indices known.

Engineering Controls

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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.

Provide exhaust ventilation or other engineering controls to keep the relevant airborne concentrations below their respective occupational exposure limits.

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.

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.

Respiratory Protection

Respiratory protective equipment is not normally required where there is adequate natural or local exhaust ventilation to control exposure.

Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary.

Respiratory protective equipment must be checked to ensure it fits correctly each time it is worn.

In case of insufficient ventilation, wear suitable respiratory equipment.

Provided an air-filtering/air-purifying respirator is suitable, a multiple type of gas filter for organic gases and vapours (boiling point $\leq 65^{\circ}\text{C}$ and $>65^{\circ}\text{C}$) can be used for vapour. Use filter types A with AX or comparable standard.

Provided an air-filtering/air-purifying respirator is suitable, a filter for particulates can be used. Use filter type P or comparable standard.

Air-filtering respirators, also called air-purifying respirators, will not be adequate under conditions of oxygen deficiency (i.e. low oxygen concentration), and would not be considered suitable where airborne concentrations of chemicals with a significant hazard are present. In these cases air-supplied breathing apparatus will be required.

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 and Face Protection

Safety glasses with side shields.

Hand Protection

Wear protective gloves if prolonged or repeated contact is likely. Wear chemical resistant gloves. Recommended: Nitrile gloves. The correct choice of protective gloves depends upon the chemicals being handled, the conditions of work and use, and the condition of the gloves (even the best chemically resistant glove will break down after repeated chemical exposures). Most gloves provide only a short time of protection before they must be discarded and replaced. Because specific work environments and material handling practices vary, safety procedures should be developed for each intended application. Gloves should therefore be chosen in consultation with the supplier/manufacturer and with a full assessment of the working conditions.

Body Protection

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.

Other skin protection: Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

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.

Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Other Information

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Refer to standards: Respiratory protection:AS/NZS 1715 and AS/NZS 1716

Gloves:AS/NZS 2161.1

Eye protection:AS/NZS 1336 and AS/NZS 1337

Section 9 - Physical and Chemical Properties

Properties	Description	Properties	Description
Form	Aerosol	Colour	Brown. [Dark]
Physical and chemical properties	The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.	Odour	Characteristic.
Melting Point	Not available.	Boiling Point	Not available.
Decomposition Temperature	Not available.	Solubility	water: Not soluble
Solubility in Water	Not available.	pH	Not applicable.
Vapour Pressure	Ingredient name / Vapour Pressure at 20°C mm Hg mmHg / kPa / Method propane 6300.51 840 butane 1602.88 213.7 orthoboric acid, potassium salt 0.000000074 0.000000009	Relative Vapour Density (Air=1)	Not available.
Evaporation Rate	Not available. Not applicable. Based on - Physical state	Odour Threshold	Not available.
Partition Coefficient: n-octanol/water (log value)	Not applicable.	Flash Point	Not applicable.
Auto-Ignition Temperature	Not available.	Flammable Limits - Lower	Not available.
Flammable Limits - Upper	Not available.	Explosion Limit - Upper	Not available.
Explosion Limit - Lower	Not available.	Initial boiling point and boiling range	Not available.
Kinematic Viscosity	150 to 170 mm ² /s (150 to 170 cSt) at 40°C	Relative Density	Not available.

Other Information

Particle characteristics

Median particle size: Not applicable.

Aerosol product

Type of aerosol: Spray

Heat of combustion: 13.85 kJ/g

Section 10 - Stability and Reactivity

Reactivity

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

Chemical Stability

The product is stable.

Possibility of hazardous reactions

Under normal conditions of storage and use, hazardous reactions will not occur.

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Under normal conditions of storage and use, hazardous polymerisation will not occur.

Conditions to Avoid

Avoid all possible sources of ignition (spark or flame). High temperatures

Incompatible Materials

Reactive or incompatible with the following materials: oxidising materials.

Hazardous Decomposition Products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Section 11 - Toxicological Information

Toxicology Information

Information on likely routes of exposure:

Routes of entry anticipated: Dermal, Inhalation, Eyes.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact:

Adverse symptoms may include the following:

irritation

redness

Inhalation:

Adverse symptoms may include the following:

respiratory tract irritation

coughing

nausea or vomiting

headache

drowsiness/fatigue

dizziness/vertigo

unconsciousness

Exposure to high concentrations can cause dizziness, lightheadedness, headache, nausea and blurred vision. Higher levels may cause unconsciousness.

May be harmful by inhalation if exposure to vapour, mists or fumes resulting from thermal decomposition products occurs.

Skin contact: No specific data.

Ingestion: No specific data.

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

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

Inhalation: Overexposure to the inhalation of airborne droplets or aerosols may cause irritation of the respiratory tract.

Skin contact: Prolonged or repeated contact can defat the skin and lead to irritation, cracking and/or dermatitis.

Ingestion: Ingestion of large quantities may cause nausea and diarrhoea.

General: No known significant effects or critical hazards.

Teratogenicity: No known significant effects or critical hazards.

Developmental effects: No known significant effects or critical hazards.

Fertility effects: No known significant effects or critical hazards.

Ingestion

No known significant effects or critical hazards.

Inhalation

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

Skin

No known significant effects or critical hazards.

Eye

No known significant effects or critical hazards.

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Carcinogenicity

No known significant effects or critical hazards.

Mutagenicity

No known significant effects or critical hazards.

Section 12 - Ecological Information

Persistence and degradability

Expected to be biodegradable.

Mobility

Mobility in soil

Soil/water partition coefficient (KOC): Not available.

Spillages may penetrate the soil causing ground water contamination.

Bioaccumulative Potential

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

Other Information

Other ecological information: Spills may form a film on water surfaces causing physical damage to organisms.

Oxygen transfer could also be impaired.

Section 13 - Disposal Considerations

Waste Disposal

The generation of waste should be avoided or minimised wherever possible.

Significant quantities of waste product residues should not be disposed of via the foul sewer but processed in a suitable effluent treatment plant. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Waste packaging should be recycled.

Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Do not puncture or incinerate container.

Special Precautions for Incineration or Landfill

No additional special precautions identified.

Section 14 - Transport Information

UN Number

1950

Proper Shipping Name

AEROSOLS

Transport Hazard Class

2.1

Hazchem Code

2YE

IERG Number

49

Special Precautions for User

Not available.

IATA UN Number

1950

IATA Proper Shipping Name

Aerosols, flammable

IATA Transport Hazard Class

2.1

IMDG UN Number

1950

IMDG Proper Shipping Name

AEROSOLS

IMDG Transport Hazard Class

2.1

Additional Information

ADG

UN number: UN1950

UN proper shipping name: AEROSOLS

Transport hazard class (es): 2.1

Environmental hazards: No.

Additional information

Hazchem code: 2YE

Initial emergency response guide: 49

IMDG

UN number: UN1950

UN proper shipping name: AEROSOLS

Transport hazard class (es): 2.1

Environmental hazards: No.

Additional information

Emergency schedules:

F-D,S-U

IATA

UN number: UN1950

UN proper shipping name: AEROSOLS

Transport hazard class (es): 2.1

Environmental hazards: No.

Section 15 - Regulatory Information

Regulatory Information

Standard for the Uniform Scheduling of Medicines and Poisons:

Not regulated.

Model Work Health and Safety Regulations - Scheduled Substances:

No listed substance

Montreal Protocol:

Not listed.

Stockholm Convention on Persistent Organic Pollutants:

Not listed.

Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

International lists

National inventory

REACH Status: For the REACH status of this product please consult your company contact, as identified in Section 1(Identification).

China inventory (IECSC): All components are listed or exempted.

Japan inventory (CSCL): At least one component is not listed.

Korea inventory (KECI) :All components are listed or exempted.

Taiwan Chemical Substances Inventory (TCSI): At least one component is not listed.

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United States inventory (TSCA 8b): Not determined.

Poisons Schedule

Not Scheduled

Global Inventory Status

Country/Region Inventory	Status Description	Country/Region Inventory	Status Description
Australia (AICS/AIIC)	All components are listed or exempted.	Canada (DSL/NDL)	At least one component is not listed.
Philippines (PICCS)	At least one component is not listed.		

Section 16 - Any Other Relevant Information

User Codes

User Title Label	User Codes
Wis Numbers	05078853

Signature of Preparer/Data Service

Prepared by: Product Stewardship

Other Information

Key to abbreviations:

ADG = Australian Dangerous Goods

ATE = Acute Toxicity Estimate

BCF = Bioconcentration Factor

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)

NOHSC = National Occupational Health and Safety Commission

REACH = Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation [Regulation (EC) No. 1907/2006]

STEL = Short term exposure limit

SUSMP = Standard Uniform Schedule of Medicine and Poisons

UN = United Nations

TWA = Time weighted average

VOC = Volatile Organic Compound

SADT = Self-Accelerating Decomposition Temperature

Varies = may contain one or more of the following 64741-88-4, 64741-89-5, 64741-95-3, 64741-96-4, 64742-01-4, 64742-44-5, 64742-45-6, 64742-52-5, 64742-53-6, 64742-54-7, 64742-55-8, 64742-56-9, 64742-57-0, 64742-58-1, 64742-62-7, 64742-63-8, 64742-65-0, 64742-70-7, 72623-85-9, 72623-86-0, 72623-87-1

Procedure used to derive the classification:

Classification / Justification

FLAMMABLE AEROSOLS - Category 1 On basis of test data

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END OF SDS

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