SAFETY DATA SHEET



Identification of the substance/preparation and company/undertaking 1.

Product name Castrol Chain Spray O-R

SDS no. 450381

Use of the Chain lubricant.

substance/preparation For specific application advice see appropriate Technical Data Sheet or consult our company

representative.

Supplier Castrol (UK) Ltd

Wakefield House Pipers Way Swindon

Wiltshire SN3 1RE

EMERGENCY TELEPHONE

NUMBER

Carechem: +44 (0) 208 762 8322 (24 hours)

E-mail address MSDSadvice@bp.com

2 . Hazards identification

This preparation is classified as dangerous according to Directive 1999/45/EC as amended and adapted.

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

Physical/chemical hazards Extremely flammable.

Human health hazards Vapours may cause drowsiness and dizziness.

Environmental hazards Additional hazards

Solvent "sniffing" (abuse) or intentional overexposure to vapours can produce serious central nervous

system effects, including unconsciousness, and possibly death.

3. Composition/information on ingredients

Hydrocarbon solvent

Chemical name	CAS no.	%	EINECS / ELINCS.	Classification	
www.boiling point hydrogen treated naphtha	64742-49-0	10 - 20	265-151-9	F; R11 Xn; R65 Xi; R38 R67 N; R51/53	[1]
Hydrocarbon solvent	Proprietary	1 - 5		F; R11 Xn; R65 Xi; R38 R67 N; R51/53	[1]
2-ethylhexanoic acid, compound with dodecylamine (1:1)	85068-69-5	0.1 - 1	285-327-9	Xi; R36/38 N; R51/53	[1]

See section 16 for the full text of the R-phrases declared above

[1] Substance classified with a health or environmental hazard

[2] Substance with a workplace exposure limit

[3] PBT-substance

[4] vPvB-substance

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

First-aid measures

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

attention if irritation occurs.

Skin contact rcase of contact, immediately flush skin with plenty of water. Remove contaminated clothing and shoes.

Wash clothing before reuse. Clean shoes thoroughly before reuse. Get medical attention if irritation

Inhalation If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give

oxygen. Get medical attention.

Ingestion Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to

an unconscious person. If potentially dangerous quantities of this material have been swallowed, call a

physician immediately.

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

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5. Fire-fighting measures

Extinguishing media

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

Not suitable Do not use water jet

Hazardous decomposition

products

Decomposition products may include the following materials:

carbon dioxide

carbon monoxide

Unusual fire/explosion hazards

Aerosols may burst if exposed to temperatures above 122°F/50°C.

Extremely explosive in the presence of heat

Special fire-fighting

procedures

Use water spray to keep fire-exposed containers cool.

Protection of fire-fighters

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

gear.

6. Accidental release measures

Personal precautions

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. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment (see section 8).

Environmental precautions

Woid 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). Water polluting material.

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 (see section 13). Use spark-proof tools and explosion-proof equipment. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilt product. Note: see section 1 for emergency contact information and section 13 for waste disposal.

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. Use spark-proof tools and explosion-proof equipment. Dispose of via a licensed waste disposal contractor.

7. Handling and storage

Handling

Storage

Wash thoroughly after handling. Avoid contact with skin and eyes.

Do not spray on a naked flame or any incandescent material. Do not smoke or use matches or lighters

during use and until all vapours (odours) have gone.

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.

Store and use away from heat, sparks, open flame or any other ignition source.

Store in a cool, well-ventilated area away from incompatible materials and ignition sources.

Pressurised container: protect from sunlight and do not expose to temperature exceeding 50°C. Do not

pierce or burn, even after use.

8. Exposure controls/personal protection

Ingredient name

Occupational exposure limits

Butane

EH40/2005 WELs (United Kingdom (UK)).
STEL: 1810 mg/m³ 15 minute(s). Issued/Revised: 1/1997

STEL: 750 ppm 15 minute(s). Issued/Revised: 1/1997 TWA: 1450 mg/m³ 8 hour(s). Issued/Revised: 1/1997 TWA: 600 ppm 8 hour(s). Issued/Revised: 1/1997

Low boiling point hydrogen treated naphtha

EH40 (United Kingdom (UK)). TWA: 1200 mg/m³ 8 hour(s).

ACGIH TLVs

Butane Propane ACGIH TLV (United States).

TWA: 1000 ppm 8 hour(s). Issued/Revised: 1/2004

ACGIH TLV (United States).

TWA: 1000 ppm 8 hour(s). Issued/Revised: 1/2004

For information and guidance, the ACGIH values are included. For further information on these please consult your supplier.

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.

Exposure controls

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Occupational exposure controls

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

All chemicals should be assessed for their risks to health and appropriate control measures put in place to prevent or adequately control exposure. A hierarchy of control measures exists (e.g. elimination, substitution, general ventilation, containment, systems of work, changing the process or activity) that must be considered before use of personal protective equipment. 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.

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.

Personal protective equipment

Respiratory protection

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

In case of insufficient ventilation, wear suitable respiratory equipment.

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

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.

Provided an air-filtering/air-purifying respirator is suitable, a multiple type of gas filter for organic gases and vapours (boiling point ≤65°C and >65°C) can be used for vapour. Use filter types A with AX or comparable

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

Hand protection Wear protective gloves if prolonged or repeated contact is likely. Wear chemical resistant gloves.

> Recommended: nitrile gloves Safety glasses with side shields.

Skin and body Use of protective clothing is good industrial practice.

> 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.

Physical and chemical properties 9.

General information

Eye protection

Appearance

Physical state Aerosol. White. Colour **Odour** Characteristic.

Important health, safety and environmental information Flash point Closed cup: <0°C (<32°F)

Explosion limits Lower: 0.8%

Upper: 10.9% -44°C (-47.2°F)

815 kg/m3 (0.815 g/cm3) at 20°C Density

insoluble in water. Solubility

Partition coefficient >3

(LogKow)

10. Stability and reactivity

Stability The product is stable.

Possibility of hazardous

reactions

Boiling point / range

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

Conditions to avoid

Extremely flammable. Keep away from sources of ignition.

Materials to avoid Reactive or incompatible with the following materials: oxidizing materials. combustion products may include the following:

Hazardous decomposition products

carbon oxides

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

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11. Toxicological information

Acute toxicity Inlikely to cause more than transient stinging or redness if accidental eye contact occurs.

> Unlikely to cause harm to the skin on brief or occasional contact but prolonged or repeated exposure may lead to dermatitis.

Aspiration hazard if swallowed. Can enter lungs and cause damage.

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.

Chronic toxicity

Chronic effects No known significant effects or critical hazards.

Effects and symptoms

No significant health hazards identified. **Eyes** Skin No significant health hazards identified.

Inhalation Harmful if inhaled.

Ingestion No significant health hazards identified.

12. Ecological information

Persistence/degradability Inherently biodegradable

Mobility Spillages may penetrate the soil causing ground water contamination.

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

Farmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment. **Environmental hazards** Other ecological information

Spills may form a film on water surfaces causing physical damage to organisms. Oxygen transfer could

also be impaired.

13. Disposal considerations

Disposal considerations / **Waste information**

Pressurised container: protect from sunlight and do not expose to temperature exceeding 50°C. Do not

pierce or burn, even after use.

Dispose of via an authorised person/ licensed waste disposal contractor in accordance with local

regulations.

Unused product

European waste catalogue

(EWC)

15 01 10* packaging containing residues of or contaminated by dangerous 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.

14. Transport information

International transport regulations

Regulatory information	UN number	Proper shipping name	Class	PG*	Label	Additional information
ADR/RID Classification	UN1950	AEROSOLS, flammable	2	-		Hazard identification number 23
ADNR Classification	UN1950	AEROSOLS, flammable	2	-		-
IMDG Classification	UN1950	AEROSOLS	2.1	-		Emergency schedules (EmS) F-D,S-U
ICAO/IATA Classification	UN1950	AEROSOLS, flammable	2.1	-		-

PG* : Packing group

2YF **UK Emergency Action Code:** ADR/RID Classification code: 5F

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15. Regulatory information

Label requirements

Hazard symbol or symbols



Indication of danger Extremely flammable

Risk phrases 12- Extremely flammable.

R67- Vapours may cause drowsiness and dizziness.

R52/53- Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

S2- Keep out of the reach of children. Safety phrases

S23- Do not breathe gas/fumes/vapour/spray.

S46- If swallowed, seek medical advice immediately and show this container or label.

S51- Use only in well-ventilated areas.

All components are listed or exempted.

All components are listed or exempted.

S61- Avoid release to the environment. Refer to special instructions/safety data sheet.

Pressurised container: protect from sunlight and do not expose to temperature exceeding 50°C. Do not Additional warning phrases

pierce or burn, even after use. Do not spray on a naked flame or any incandescent material. Keep away from sources of ignition - No smoking. Keep out of the reach of children.

Other regulations

Europe inventory United States inventory

(TSCA 8b)

Australia inventory (AICS) 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 (ENCS) All components are listed or exempted.

Korea inventory (KECI) At least one component is not listed.

Philippines inventory (PICCS)

Not determined

16. Other information

Full text of R-phrases referred to in sections 2 and 3

₹12- Extremely flammable.

R11- Highly flammable. R65- Harmful: may cause lung damage if swallowed.

R38- Irritating to skin.

R36/38- Irritating to eyes and skin.

R67- Vapours may cause drowsiness and dizziness.

R51/53- Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. R52/53- Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

History

Date of issue/ Date of

revision

24/04/2009.

Date of previous issue 03/04/2009.

Prepared by Product Stewardship Group

Notice to reader

Indicates information that has changed from previously issued version.

All reasonably practicable steps have been taken to ensure this data sheet and the health, safety and environmental information contained in it is accurate as of the date specified below. No warranty or representation, express or implied is made as to the accuracy or completeness of the data and information in this data sheet.

The data and advice given apply when the product is sold for the stated application or applications. You should not use the product other than for the stated application or applications without seeking advice from us.

It is the user's obligation to evaluate and use this product safely and to comply with all applicable laws and regulations. The BP Group shall not be responsible for any damage or injury resulting from use, other than the stated product use of the material, from any failure to adhere to recommendations, or from any hazards inherent in the nature of the material. Purchasers of the product for supply to a third party for use at work, have a duty to take all necessary steps to ensure that any person handling or using the product is provided with the information in this sheet. Employers have a duty to tell employees and others who may be affected of any hazards described in this sheet and of any precautions that should be taken.

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