SAFETY DATA SHEET



Xn; R22

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

Product name

Castrol Antifreeze

SDS#

450319

Product Use

Automotive coolant system (antifreeze/anticorrosion) concentrate. For specific application advice see

95-100

203-473-3

appropriate Technical Data Sheet or consult your Castrol representative.

Supplier

Castrol (UK) Ltd Wakefield House Pipers Way

Swindon

EMERGENCY TELEPHONE

Wiltshire SN3 1RE +44 (0) 1793 512712

NUMBER

2. Composition/information on ingredients

Ethylene glycol. Corrosion inhibitor.

Chemical name CAS no. % EINECS / Classification ELINCS.

107-21-1

See Section 16 for the full text of the R Phrases declared

above

Eyes

Skin

Skin contact

Inhalation

Ingestion

Notes to physician

Version 1

Ethanediol

Occupational Exposure Limit(s), if available, are listed in Section 8

Hazards identification 3.

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

Physical/chemical Hazards

Not classified as dangerous. Harmful if swallowed.

Human health hazards Environmental hazards

Unlikely to be harmful to aquatic organisms.

Effects and symptoms

No significant health hazards identified. No significant health hazards identified.

Inhalation

No significant health hazards identified.

Ingestion Harmful if swallowed

First aid measures

Eve Contact In case of contact, immediately flush eyes with a copious amount of water for at least 15 minutes. Get medical attention if irritation occurs.

> In case 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

develops

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If inhaled, remove to fresh air. Get medical attention if symptoms appear.

Get medical attention urgently informing the doctor that a product containing ethylene glycol has been

ingested and specific treatment may be required (see Advice to physicians).

If hospital facilities or medical assistance are NOT immediately available:

If contamination of the mouth occurs, wash out thoroughly with water. If larger amounts are swallowed and hospital facilities or medical assistance are not immediately available, induce vomiting if the casualty is fully conscious. Never attempt to induce vomiting in an unconscious or semi-conscious patient. Transport

casualty together with the product container, its label or the safety data sheet urgently to hospital. Inform the doctor that a product containing ethylene glycol has been ingested.

Gastric lavage is indicated if significant quantities have been ingested in the previous 4 hours. The metabolism of the glycol to oxalic acid may be delayed by the intravenous administration of ethanol (give as a 5% solution in physiological saline to maintain a blood level of 1-2mg/ml). This has been shown to be an effective antidote provided treatment is started within about 6 hours of exposure. The glycol may be

removed by dialysis but oxalates are not readily removed.

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Language

Build 6.1.6

EPA Export 25-5NGH3.18.52:16

Fire-fighting measures

Extinguishing Media Suitable

In case of fire, use water fog, foam, dry chemical or CO2 extinguisher or spray. **Not Suitable** Do not use water jet.

procedures

6.

Special fire-fighting

Protection of fire-fighters

Unusual fire/explosion Hazards This material is not explosive as defined by established regulatory criteria.

None identified.

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

does not reach a waterway. Place spilled material in an appropriate container for disposal. Minimize contact of spilled material with soils to prevent runoff to surface waterways. See Section 13 for Waste

Accidental release measures

Personal Precautions Immediately contact emergency personnel. Keep unnecessary personnel away. Use suitable protective

Environmental precautions and

If emergency personnel are unavailable, contain spilled material. For small spills add absorbent (soil may be used in the absence of other suitable materials) scoop up material and place in a sealed, liquid-proof container for disposal. For large spills dike spilled material or otherwise contain material to ensure runoff

equipment (Section 8). Follow all fire fighting procedures (Section 5).

cleanup methods

Personal Protection in Case of

Disposal Information. Splash goggles. Full suit. Boots. Gloves.

Handling and storage

Handling Storage

Ethanediol

Odour

Odour threshold

Boiling Point / range

Physical state

Control Measures

Hygiene measures

a Large Spill

Wash thoroughly after handling. Avoid contact with eyes, skin and clothing. Keep out of the reach of children.

Store in original container; DO NOT DECANT.

Do not remove warning labels from containers. Store in a cool, well-ventilated area away from incompatible materials and ignition sources.

Exposure controls/personal protection

8.

Ingredient Name

Occupational Exposure Limits

EH40-OES (United Kingdom (UK), 2002). Skin STEL: 104 mg/m 215 minute(s). Form: Vapour TWA: 10 mg/mg 8 hour(s). Form: Particulate

TWA: 52 mg/m3 8 hour(s). Form: Vapour Provide exhaust ventilation of other engineering controls to keep the airborne concentrations of vapours below their respective occupational exposure limits. Ensure that eyewash stations and safety showers are

close to the workstation ocation. Wash hands after handling compounds and before eating, smoking, using lavatory, and at the end of day.

Personal protective equipment Respiratory system

None required however, use of adequate ventilation is good industrial practice. None required; however, use of protective clothing is good industrial practice.

Skin and body

None required; however, use of gloves is good industrial practice. Safety glasses with side shields

Hands Eyes

Physical and chemical properties

Flash point >100 °C (Closed cup) Colour Blue

Mild

Not available.

Liquid. >100 °C

Density >1 g/cm3 at 20 °C Solubility Easily soluble in cold water.

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10 . Stability and reactivity

Incompatibility with Various The product is stable. Hazardous reactions are possible with concentrated mineral acids, strong oxidizing Substances

agents, alkali metals and isocyanates. Combustible material. Will not occur

11. Toxicological information

Acute toxicity

Hazardous Polymerization

Unlikely 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.

Harmful if swallowed

Chronic toxicity Carcinogenic effects International Agency for Research on Cancer (IARC) or the European Commission (EC).

At normal ambient temperatures this product will be unlikely to present an inhalation hazard because of its low volatility. May be harmful by inhalation if exposure to vapour, mists or fumes resulting from thermal

decomposition products occurs. No component of this product at levels greater than 0.1% is identified as a carcinogen by ACGIH, the

12. Ecological information

Persistence/degradability

Mobility

Hazardous Waste

Contains

EU Regulations

Other Regulations Inventories

Version 1

Bioaccumulative potential **Environmental hazards**

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

The classification of the product may meet the criteria for a hazardous waste

Spillages may penetrate the soil causing ground water contamination.

Unlikely to be harmful to aquatic organisms. Other Ecological Information Miscible in water.

Inherently biodegradable

13 Disposal considerations

Disposal Consideration / Undiluted fluid Waste information Where possible, arrange for product to be peccycled Dispose of via an authorised person/licensed waste

disposal contractor in accordance with local regulations. Incineration may be carried out under controlled conditions provided that local regulations for emissions are met.

> Diluted Fluid Diluted fluid should not be discharged into sewage systems unless provided for by local regulations.

14 . Transport information

Not classified as hazardous for transport (ADR, RID, UN , IMO, IATA/ICAO).

15 . Regulatory information

Label Requirements

Restrictions to product use



Dispose under conditions approved by the local authority or via a licensed waste disposal contractor.

Hazard symbol(s)

Harmful

Indication of Danger

Risk Phrases R22- Harmful if swallowed Safety Phrases

Ethanediol

Classification and labelling have been performed according to EU directives 1999/45/EC and 67/548/EEC as amended and adapted.

- Industrial applications

Classification and labelling have been performed according to EU directives 1999/45/EC and 67/548/EEC as amended and adapted

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203-473-3

AUSTRALIAN INVENTORY (AICS): In compliance.

CANADA INVENTORY (DSL): In compliance.

CHINA INVENTORY (IECS): In compliance.

EC INVENTORY (EINECS/ELINCS): In compliance.

JAPAN INVENTORY (ENCS): In compliance.

KOREA INVENTORY (ECL): In compliance.

PHILIPPINE INVENTORY (PICCS): In compliance.

US INVENTORY (TSCA): Listed on inventory.

16. Other information

Full text of R-phrases appearing in section 2: R22- Harmful if swallowed.

HISTORY

Date of issue

24/10/2003.

Date of previous issue

No Previous Validation.

Prepared by

Product Stewardship Group

should not use the product other than for the stated application or applications without seeking advice from us.

Notice to Reader

The data and advice given apply when the product is sold for the stated application or applications. The product is not sold as suitable for any

If you have purchased the product for supply to a third party for use at work, it is your duty to take all necessary steps to secure that any person handling or using the product is provided with the information in this sheet.

other application. Use of the product for applications other than as stated in this sheet may give rise to risks not mentioned in this sheet. You

If you are an employer, it is your duty to tell your employees and others who may be affected 🖋 any hazards described in this sheet and of any

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