

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

Product name	Icematic SW 32
SDS #	FR-451083, UK-6140
Product use	Refrigerator compressor lubricant.
Supplier	Castrol (U.K.) Limited Wakefield House Pipers Way Swindon Wiltshire, SN3 1RE United Kingdom
	Tel.: +44 (0)1793 512712 Fax.: +44 (0)1793 486083
EMERGENCY TELEPHONE NUMBER	+44 (0) 208 762 8322

2. Composition/information on ingredients

Synthetic lubricant and additives.

Chemical name	CAS no.	%	EINECS / ELINCS.	Classification
Carboxylic acids, mixed tetraesters with pentaerythritol		50 - 100	443-990-3	R53

See section 16 for the full text of the R Phrases declared above

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

3. Hazards identification

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

Physical/chemical hazards	Not classified as dangerous.
Human health hazards	Not classified as dangerous.
Environmental hazards	May cause long-term adverse effects in the aquatic environment.
Effects and symptoms	
Eyes	May cause mild eye irritation.
Skin	Prolonged or repeated contact can defat the skin and lead to irritation and/or dermatitis.
Inhalation	Vapours and aerosol can produce mucous membrane, nose and throat irritation.
Ingestion	Ingestion may cause gastrointestinal irritation and diarrhoea.

4. First aid measures

Eye 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.
Skin contact	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 irritation develops.
Inhalation	If inhaled, remove to fresh air. Get medical attention if symptoms appear.
Ingestion	Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If large quantities of this material are swallowed, call a physician immediately.

5. Fire-fighting measures

Extinguishing Media	
Suitable	In case of fire, use water fog, foam, dry chemical or carbon dioxide extinguisher or spray. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.
Not Suitable	Do not use water jet.
Hazardous decomposition products	These products are carbon oxides (CO, CO ₂).

Product Name Icematic SW 32

Product code 451083-FR01

Page: 1/4

Version 1.01

Date of issue 1 June 2004

Format United Kingdom (UK)

Language ENGLISH

Build 6.2.5

(ENGLISH)

Unusual fire/explosion Hazards	This material is not explosive as defined by established regulatory criteria.
Special Fire-Fighting Procedures	None identified.
Protection of fire-fighters	Fire-fighters should wear self-contained positive pressure breathing apparatus (SCBA) and full turnout gear.

6. Accidental release measures

Personal Precautions	Immediately contact emergency personnel. Keep unnecessary personnel away. Use suitable protective equipment (Section 8). Follow all fire fighting procedures (Section 5).
Environmental precautions and clean-up methods	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 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 Disposal Information.
Personal protection in case of a large spill	Splash goggles. Full suit. Boots. Gloves. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.

7. Handling and storage

Handling	Avoid contact of spilled material and runoff with soil and surface waterways. Wash thoroughly after handling.
Storage	Keep container tightly closed. Keep container in a cool, well-ventilated area.

8. Exposure controls/personal protection

Occupational exposure limits	This product does not have any assigned OELs.
Control Measures	Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapours below their respective occupational exposure limits.
Hygiene measures	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.
Skin and body	Wear appropriate clothing to avoid prolonged skin contact.
Hands	Wear protective gloves if prolonged or repeated contact is likely. Chemical resistant gloves. Recommended: Butyl 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.
Eyes	Safety glasses with side shields.

9. Physical and chemical properties

Flash point	>233 °C (Open cup) Cleveland.
Pour Point	-46 °C
Colour	Yellow. (Light.)
Odour	Mild
Physical state	Liquid.
Density	<1000 kg/m ³ (<1 g/cm ³) at 20°C
Vapor pressure	<0.01 kPa (<0.075 mm Hg) at 20°C
Solubility	Insoluble in water.
Viscosity	Kinematic: 32 mm ² /s (32 cSt) at 40°C Kinematic: 5.6 mm ² /s (5.6 cSt) at 100°C

10 . Stability and reactivity

Incompatibility with various substances	Reactive with oxidising agents.
Hazardous polymerization	Will not occur.

11 . Toxicological information

Chronic toxicity	
Carcinogenic effects	No component of this product at levels greater than 0.1% is identified as a carcinogen by ACGIH, the International Agency for Research on Cancer (IARC) or the European Commission (EC).

12 . Ecological information

Persistence/degradability	Inherently biodegradable.
Mobility	Nonvolatile. Liquid. Insoluble in water.
Environmental hazards	May cause long-term adverse effects in the aquatic environment.

13 . Disposal considerations

Disposal Consideration / Waste information	Avoid contact of spilled material and runoff with soil and surface waterways. Consult an environmental professional to determine if local, regional or national regulations would classify spilled or contaminated materials as hazardous waste. Use only approved transporters, recyclers, treatment, storage or disposal facilities.
Hazardous waste	This product is listed as Hazardous by the EU Directive on hazardous waste. Dispose of according to all national and local applicable regulations.

14 . Transport information

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

15 . Regulatory information

Label Requirements	
Risk Phrases	R53- May cause long-term adverse effects in the aquatic environment.
Safety Phrases	S61- Avoid release to the environment. Refer to special instructions/Safety data sheets.
EU Regulations	Classification and labelling have been performed according to EU directives 1999/45/EC and 67/548/EEC as amended and adapted.
Other regulations	
Inventories	AUSTRALIAN INVENTORY (AICS): Not determined. CANADA INVENTORY (DSL): Not determined. CHINA INVENTORY (IECS): Not determined. EC INVENTORY (EINECS/ELINCS): In compliance. JAPAN INVENTORY (ENCS): Not determined. KOREA INVENTORY (ECL): Not determined. PHILIPPINE INVENTORY (PICCS): Not determined. US INVENTORY (TSCA): Not determined.

16 . Other information

Full text of R phrases referred to in sections 2 and 3	R53- May cause long-term adverse effects in the aquatic environment.
History	
Date of issue	01/06/2004.
Date of previous issue	19/05/2004.
Prepared by	Product Stewardship
Notice to reader	

Product Name Icematic SW 32

Product code 451083-FR01

Page: 3/4

Version 1.01

Date of issue 1 June 2004

Format United Kingdom (UK)

Language ENGLISH

Build 6.2.5

(ENGLISH)

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 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 should not use the product other than for the stated application or applications without seeking advice from us. 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. If you are an employer, it is your duty to tell your employees and others who may be affected of any hazards described in this sheet and of any precautions which should be taken. Further copies of this Safety Data Sheet may be obtained from Castrol.

Product Name Icematic SW 32

Product code 451083-FR01

Page: 4/4

Version 1.01

Date of issue 1 June 2004

**Format United Kingdom
(UK)**

Language ENGLISH

Build 6.2.5

(ENGLISH)