

CP0908 v1.3 RS 463-3569

RS REACH revision date 01/12/09

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

**Product name** Cooledge BI

**SDS no.** 450805

**Historic SDS no.** FR-450805, BE-450805, ES-450805, GR-450805, NL-450805, PT-450805, TR-450805, UK-7002

**Use of the substance/preparation** Metalworking fluid - soluble.  
For specific application advice see appropriate Technical Data Sheet or consult our company representative.

**Supplier** Castrol (U.K.) Limited  
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Pipers Way  
Swindon  
Wiltshire, SN3 1RE  
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Birchington Road, Corby, Northants, NN17 9RS.  
Tel: +44 (0) 1536 402888 (8am to 8pm)  
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**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.

**Human health hazards** Risk of serious damage to eyes.

**Additional hazards** Not classified as dangerous when diluted below 40%.

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

**3. Composition/information on ingredients**

Highly refined mineral oil, emulsifiers and additives.

Chemical name	CAS no.	%	EINECS / ELINCS.	Classification
Sodium sulphonate	68608-26-4	1 - 5	271-781-5	Xi; R41 [1]
Isotridecanol	68526-86-3	1 - 5	271-235-6	N; R50 [1]
N,N - methylene bismorpholine	5625-90-1	1 - 5	227-062-3	Xn; R22 [1] C; R34 R52
amides, tall oil fatty, N,N-bis(hydroxyethyl)	68155-20-4	1 - 5	268-949-5	Xi; R41, R38 [1]
Polyalkylene glycol ethers	Proprietary	1 - 5		Xi; R38 [1]
Amine neutralised carboxylic acids	Not available.	1 - 5		Xi; R36/38 [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.

**4. First-aid measures**

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

**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. Wash out mouth with water if person is conscious. 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. 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	Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides sulfur oxides metal oxide/oxides
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 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. Do not touch or walk through spilt material. 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	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).
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. Wash spillages into an effluent treatment plant or proceed as follows. 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). 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. Dispose of via a licensed waste disposal contractor.

7 . Handling and storage

Handling	Do not get in eyes. Avoid breathing vapour or mist. Avoid prolonged or repeated contact with skin. Avoid contact of spilt material and runoff with soil and surface waterways. Wash thoroughly after handling. During metal working, solid particles from workpieces or tools will contaminate the fluid and may cause abrasions of the skin. Where such abrasions result in a penetration of the skin, first aid treatment should be applied as soon as reasonably possible. Evaporation of water from soluble cutting fluids during use may lead to an increase in concentration which may result in the development of skin conditions due to irritation and defatting. It is important to monitor fluid strength on a regular basis with a refractometer and maintain it at the recommended concentration.
Storage	Keep container tightly closed. Keep container in a cool, well-ventilated area. Protect from freezing.

8 . Exposure controls/personal protection

Ingredient name	Occupational exposure limits
Base oil - unspecified	EH40-OES (United Kingdom (UK)). STEL: 10 mg/m³ 15 minute(s). Form: Oil mist, mineral TWA: 5 mg/m³ 8 hour(s). Form: Oil mist, mineral
ACGIH TLVs	ACGIH (United States). STEL: 10 mg/m³ 15 minute(s). Form: Mineral oil, mist TWA: 5 mg/m³ 8 hour(s). Form: Mineral oil, mist
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.	
This product contains a preservative that may release trace amounts of formaldehyde during use.	
Exposure controls	
Occupational exposure controls	Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapours below their respective occupational exposure limits. Local exhaust ventilation is preferred because it prevents contaminant dispersion into the work area by controlling it at its source.
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	

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<b>Respiratory protection</b>	None required. However, use of adequate ventilation is good industrial practice.
<b>Hand protection</b>	Wear protective gloves if prolonged or repeated contact is likely. 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.
<b>Eye protection</b>	Do not get in eyes. Chemical splash goggles.
<b>Skin and body</b>	Wear appropriate clothing to avoid prolonged skin contact.

## 9 . Physical and chemical properties

### General information

#### Appearance

<b>Physical state</b>	Liquid.
<b>Colour</b>	Brown.
<b>Odour</b>	Mild

### Important health, safety and environmental information

<b>Flash point</b>	Closed cup: >100°C (>212°F)
<b>pH</b>	<10.3 [Conc. (% w/w): 5%]
<b>Boiling point / range</b>	>100°C (>212°F)
<b>Pour point</b>	<0 °C
<b>Density</b>	<1000 kg/m <sup>3</sup> (<1 g/cm <sup>3</sup> ) at 20°C
<b>Solubility</b>	Emulsifies in water.

## 10 . Stability and reactivity

<b>Stability</b>	The product is stable.
<b>Possibility of hazardous reactions</b>	Under normal conditions of storage and use, hazardous reactions will not occur.
<b>Conditions to avoid</b>	High temperatures
<b>Materials to avoid</b>	Reactive or incompatible with the following materials: oxidizing materials. Slightly reactive or incompatible with the following materials: acids.
<b>Hazardous decomposition products</b>	Combustion products may include the following: carbon oxides nitrogen oxides sulfur oxides metal oxide/oxides  Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## 11 . Toxicological information

<b>Chronic toxicity</b>	
<b>Chronic effects</b>	No known significant effects or critical hazards.
<b>Effects and symptoms</b>	
<b>Eyes</b>	Causes severe eye irritation.
<b>Skin</b>	Prolonged or repeated contact can defat the skin and lead to irritation and/or dermatitis.
<b>Inhalation</b>	Vapours and aerosol can produce mucous membrane, nose and throat irritation.
<b>Ingestion</b>	Ingestion may cause gastrointestinal irritation and diarrhoea.

## 12 . Ecological information

<b>Persistence/degradability</b>	Inherently biodegradable
<b>Mobility</b>	Liquid. Emulsifies in water.
<b>Environmental hazards</b>	Not classified as dangerous.

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13 . Disposal considerations


Disposal considerations / Waste information	The generation of waste should be avoided or minimised wherever possible. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe way. 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. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.
Unused product	
European waste catalogue (EWC)	12 01 07* mineral-based machining oils free of halogens (except emulsions and solutions)  12 01 09* machining emulsions and solutions free of halogens  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	
European waste catalogue (EWC)	15 01 10* packaging containing residues of or contaminated by dangerous substances

14 . Transport information

Not classified as hazardous for transport (ADR/RID, ADN, IMDG, ICAO/IATA)

15 . Regulatory information

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

Label requirements	
Hazard symbol or symbols	 Irritant
Indication of danger	
Risk phrases	R41- Risk of serious damage to eyes.
Safety phrases	S26- In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. S36/37/39- Wear suitable protective clothing, gloves and eye/face protection.
Other regulations	
Europe inventory	All components are listed or exempted.
United States inventory (TSCA 8b)	At least one component is not listed.
Australia inventory (AICS)	All components are listed or exempted.
Canada inventory	At least one component is not listed.
China inventory (IECSC)	All components are listed or exempted.
Japan inventory (ENCS)	All components are listed or exempted.
Korea inventory (KECI)	All components are listed or exempted.
Philippines inventory (PICCS)	At least one component is not listed.

16 . Other information

Full text of R-phrases referred to in sections 2 and 3	R22- Harmful if swallowed. R34- Causes burns. R41- Risk of serious damage to eyes. R38- Irritating to skin. R36/38- Irritating to eyes and skin. R50- Very toxic to aquatic organisms. R52- Harmful to aquatic organisms.
History	
Date of issue/ Date of revision	15/08/2008.
Date of previous issue	No previous validation.
Prepared by	Product Stewardship Group
Notice to reader	
Indicates information that has changed from previously issued version.	

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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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