

Safety Data Sheet

according to 1907/2006/EC, Article 31

Printing date 03.06.2009

Revision: 03.06.2009

1 Identification of substance:

· **Product details:**

· **Trade name:** Torch Coolant 50

· **Article number(s):** 670410, 670415

· **Application of the substance / the preparation:**

Torch coolant

Solvents

Fuel additive

· **Manufacturer / Supplier:**

A. + E. FISCHER-CHEMIE

Storchenallee 49

D-65201 Wiesbaden

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e-mail: info@fischer-wiesbaden.de

· **E-mail address of the competent person responsible for the Safety Data Sheet:** sdb@csb-online.de

· **Informing department:** Safety adviser

· **Emergency information:**

Next toxicological information centre or for Germany:

Beratungsstelle für Vergiftungserscheinungen Mainz (Poison Information Center)

Phone: +49 6131 / 19 24 0

2 Hazards identification

· **Hazard designation:**



Xn Harmful

· **Information pertaining to particular dangers for man and environment**

R 22 Harmful if swallowed.

· **Classification system**

The product has to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.

3 Composition/information on ingredients

· **Chemical characterization**

· **Description:** Mixture of the substances listed below with harmless products.

· **Dangerous components:**

CAS: 107-21-1	Ethylene glycol	Xn; R 22	50%
EINECS: 203-473-3			
Index number: 603-027-00-1			

· **Additional information** For the wording of the listed risk phrases refer to section 16.

4 First aid measures

· **General information:**

Immediately remove any clothing contaminated by the product.

Symptoms of poisoning may occur after several hours. Medical observation for at least 48 hours after the accident is recommended.

· **After inhalation:**

Supply fresh air; consult doctor in case of symptoms.

In case of unconsciousness bring patient into stable side position for transport.

· **After skin contact:**

Wash with soap and water.

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*If skin irritation continues, consult a doctor.***· After eye contact:***Rinse opened eye for several minutes under running water. In case of symptoms consult doctor.***· After swallowing:***Rinse out mouth and then drink plenty of water.**Induce vomiting only if person affected is fully conscious.**Seek immediate medical advice.***5 Fire fighting measures****· Suitable extinguishing agents***BC powder**Foam**Water haze***· For safety reasons unsuitable extinguishing agents** *Water with a full water jet.***· Special hazards caused by the material, its products of combustion or flue gases:***Carbon monoxide (CO) and Carbon dioxide (CO₂)***· Protective equipment:** *Wear self-contained breathing apparatus.***· Additional information***Cool endangered containers with water spray jet.**Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.**If without risk possible, move drums with material away from dangerous area.***6 Accidental release measures****· Person-related safety precautions:***Do not breathe vapours.**Avoid skin and eye contact.***· Measures for environmental protection:** *Do not allow to enter drainage system, surface or ground water.***· Measures for cleaning/collecting:***Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).**Absorb with inert material (sand, diatomite).**Do not use flammable materials such as sawdust e.g.**Absorb with liquid-binding, inert material (sand, diatomite, acid binders, universal binders).**Dispose of the material collected according to regulations.***7 Handling and storage****· Handling****· Information for safe handling:***Ensure good ventilation/exhaustion at the workplace.**Ensure good interior ventilation, especially at floor level. (Fumes are heavier than air).**Prevent formation of aerosols.**Do not inhale vapours/aerosols.**Avoid prolonged or repeated skin contact.**Avoid contact with eyes.**Make sure that all applicable workplace limits are observed.***· Information about protection against explosions and fires:***The product forms flammable fumes when heated.**Keep ignition sources away - Do not smoke.**Protect against electrostatic charges.***· Storage****· Requirements to be met by storerooms and containers:***Observe all local and national regulations for storage of water polluting products.*

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· **Information about storage in one common storage facility:**

Store away from oxidizing agents.

Do not store together with alkalis (caustic solutions).

Do not store together with acids.

· **Further information about storage conditions:**

Keep container tightly sealed.

This product is hygroscopic.

Protect from humidity and keep away from water.

Protect from heat and direct sunlight.

Store container in a well ventilated position.

8 Exposure controls and personal protection

· **Additional information about design of technical systems:** No further data; see item 7.

· **Components with critical values that require monitoring at the workplace:**

107-21-1 Ethylene glycol

WEL (Great Britain)	Short-term value: 104** mg/m ³ , 40** ppm Long-term value: 10* 52** mg/m ³ , 20** ppm Sk *particulate **vapour
IOELV (European Union)	Short-term value: 104 mg/m ³ , 40 ppm Long-term value: 52 mg/m ³ , 20 ppm Skin

· **Additional information:** The lists that were valid during the compilation were used as basis.

· **Personal protective equipment**

· **General protective and hygienic measures**

Keep away from foodstuffs, beverages and food.

Do not inhale gases / fumes / aerosols.

Avoid close or long term contact with the skin.

Avoid contact with the eyes and skin.

Wash hands during breaks and at the end of the work.

· **Breathing equipment:**

If all workplace limits are observed and good ventilation is ensured, no special precautions necessary.

Use breathing protection in case of insufficient ventilation.

Filter A

· **Protection of hands:**

Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation.

Check the permeability prior to each renewed use of the glove.

· **Material of gloves**

Butyl rubber - BR

Fluorocarbon rubber (Viton) - FKM

Nitrile rubber - NBR

Neoprene gloves

PVC or PE gloves

· **Penetration time of glove material**

Protective gloves should be replaced at first signs of wear.

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

· **Eye protection:** Safety glasses

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9 Physical and chemical properties:

· General Information

Form: liquid
 Colour: colourless
 Smell: nearly odourless

· Change in condition

Melting point/Melting range: -13°C
 Boiling point/Boiling range: 197°C

· Flash point: 111°C

· Ignition temperature: 398°C

· Self-inflammability: Product is not selfigniting.

· Danger of explosion: Product is not explosive. However, formation of explosive air/vapour mixtures is possible.

· Critical values for explosion:

Lower: 3 Vol %
 Upper: 15 Vol %

· Vapour pressure at 20°C: 0.07 hPa

· Density at 20°C 1.1 g/cm³

· Solubility in / Miscibility with

Water: fully miscible
 Organic solvents: soluble in many organic solvents

· Viscosity:

dynamic at 20°C: 21 mPas

10 Stability and reactivity

· Thermal decomposition / conditions to be avoided:

Protect from heat.

Moisture

· Materials to be avoided:

Strong oxidizing agents

Strong acids

Alkaline materials

Flammable materials

· Dangerous reactions

Violent reaction with strong oxidizing agents

Reacts with strong acids

Reacts with strong alkali

· Dangerous products of decomposition: Carbon monoxide (CO) and Carbon dioxide (CO₂)

11 Toxicological information

· Acute toxicity:

· LD/LC50 values that are relevant for classification:

107-21-1 Ethylene glycol

Oral	LD50	5840 mg/kg (rat)
Dermal	LD50	9530 mg/kg (rabbit)

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- **Primary irritant effect:**
- **on the skin:** Slightly irritating
- **on the eye:** Short time, reversible irritating effect.
- **Sensitization:** No sensitizing effect known.
- **Additional toxicological information:**
The product shows the following dangers according to the calculation method of the General EC Classification Guidelines for Preparations as issued in the latest version:
Harmful

12 Ecological information:

- **Information about elimination (persistence and degradability):**
- **Other information:**
Biodegradability 96% in 14 days (OECD 301C)
The product is easily biodegradable.
- **Behaviour in environmental systems:**
- **Mobility and bioaccumulation potential:**
log P(o/w): -1.93 - -1.34
BCF: 0.21 - 0.6 (Procambarus sp.)
Not worth-mentioning accumulating in organisms
- **General notes:** Water hazard class 1 (Self-assessment); slightly hazardous for water

13 Disposal considerations

- **Product:**
- **Recommendation**
Must not be disposed of together with household garbage. Do not allow product to reach sewage system.
- **European waste catalogue:**
07 01 04 other organic solvents, washing liquids and mother liquors
- **Uncleaned packagings:**
- **Recommendation:** Disposal must be made according to official regulations.

14 Transport information

- **Land transport ADR/RID (cross-border):**
- **ADR/RID Class:** -
- **Maritime transport IMDG-Code:**
- **IMDG Class:** -
- **Air transport ICAO-TI and IATA-DGR:**
- **ICAO/IATA Class:** -
- **Transport/Additional information:** Not dangerous according to the above specifications.

15 Regulatory information

- **Designation according to EC guidelines:**
The product has been classified/labelled in accordance with EC Directives / relevant national laws.

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· Code letter and hazard designation of product:*Xn Harmful***· Risk phrases:***22 Harmful if swallowed.***· Safety phrases:***2 Keep out of the reach of children.***· National regulations****· Information about limitation of use:** *Employment restrictions concerning young persons must be observed.***· Decree to be applied in case of technical fault:** -**· Water hazard class:** *Water hazard class 1 (Self-assessment): slightly hazardous for water***16 Other information:**

These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· Relevant R-phrases:*22 Harmful if swallowed.***· Department issuing MSDS:***C.S.B. GmbH**Phone: ++49 - 2151 - 652086-0**Parkstraße 29**Fax: ++49 - 2151 - 652086-9**D-47829 Krefeld**Germany*