

**ACD BRAKE FLUID DOT 4**
**5015**

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**Supplier**

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**1. Identification of the product and the company**

Identification of the product : Liquid.  
 Use : Automobile industry  
 \* Company identification : See producer or distributor.

**2. Information on ingredients**

\* This product is not considered to be hazardous but contains hazardous components.

Substance name	Value(s)	CAS nr / EINECS nr / EC index	Symbol(s)	R-Phrase(s)
<u>2-(2-butoxyethoxy)ethanol</u>	: < 3 %	112-34-5 / 203-961-6 / 603-096-00-8	Xi	36
<u>Diethylene glycol</u>	: < 10 %	111-46-6 / 203-872-2 / 603-140-00-6	Xn	22
<u>Polyoxyethylene monobutyl ether</u>	: < 15 %	9004-77-7 / ----- / -----	Xi	36
<u>1,1'-iminodipropan-2-ol</u>	: < 2 %	110-97-4 / 203-820-9 / 603-083-00-7	Xi	36

**3. Hazards identification**
**Symptoms relating to use**

- Inhalation : Not expected to present a significant inhalation hazard under anticipated conditions of normal use.  
 - Skin contact : Not expected to present a significant skin hazard under anticipated conditions of normal use.  
 - Eye contact : Not expected to present a significant eye contact hazard under anticipated conditions of normal use.  
 - Ingestion : Not expected to present a significant ingestion hazard under anticipated conditions of normal use.

**4. First aid measures**

- Skin contact : Rinse immediately with plenty of water.  
 - Eye contact : Rinse immediately with plenty of water.  
 Seek medical advice.  
 - Ingestion : Seek medical attention immediately.  
 General information : Remove immediately contaminated clothing.

**5. Fire - fighting measures**

Extinguishing media : Water spray.  
 Powder.  
 Alcohol resistant foam.  
 Carbon dioxide.  
 Special exposure hazards : Under fire conditions, hazardous fumes will be present. : CO, NOx  
 Special procedures : Self-contained breathing apparatus when in close proximity to fire.

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## 6. Accidental release measures

- Personal precautions : Good ventilation of the workplace required.  
Wear recommended personal protective equipment.
- Environmental precautions : Prevent entry to sewers and public waters.

## 7. Handling and storage

- Storage : Store in dry, cool area.
- Storage - away from : Flammable materials.
- Handling : No special requirements.

## 8. Exposure controls / personal protection

- Personal protection : Avoid all unnecessary exposure.
- Respiratory protection : In case of insufficient ventilation, wear suitable respiratory equipment.
- Hand protection : Use rubber gloves.
- Eye protection : Safety glasses.

## 9. Physical and chemical properties

- Physical state : Liquid.
- Colour : Yellow.
- Odour : Typical
- pH value : 7.5 - 9
- Pour point [°C] : <-70
- Initial boiling point [°C] : >260
- Density [g/dm<sup>3</sup>] : 1055 - 1075
- Vapour pressure [bar] : > 0.001
- Viscosity [mm<sup>2</sup>/s] : 15 - 17.5
- Solubility in water : Good.
- Flash point [°C] : >130
- Auto-ignition temperature [°C] : >200
- Explosion limits - lower [%] : 1,5
- Log P octanol / water at 20°C : /

## 10. Stability and reactivity

- Hazardous reactions : None under normal conditions.

## 11. Toxicological information

- \* - Inhalation : No data available.
- \* - Dermal : No data available.
- \* - Ingestion : No data available.
- \* Sensitization : No data available.
- \* Mutagenicity : No data available.

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## 12. Ecological information

LC50-96 Hour - fish [mg/l] : 250 - 350  
COD : 1.805 mg/g  
Biodegradation [%] : 90

## 13. Disposal considerations

Disposal : Dispose in a safe manner in accordance with local/national regulations.

## 14. Transport information

General information : Not regulated.

## 15. Regulatory information

Symbol(s) : None.  
R Phrase(s) : None.  
\* S Phrase(s) : None.

## 16. Other information

Text of R-Phrases in § 2 : R22 : Harmful if swallowed.  
R36 : Irritating to eyes.  
Further information : Revision - See : \*  
Print date : 18 / 12 / 2006

The contents and format of this MSDS are in accordance with EEC Commission Directive 2001/58/EC.

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