

## Safety Data Sheet

Issue date: 21.04.2022

v 5

Last Revision Date: 21.04.2022

**1 Identification**· **Product identifier**· **Trade name: DOT 4 High Performance Brake Fluid**· **Part number:** 205220, 205204· **Application of the substance / the mixture** brake fluid· **Details of the supplier of the safety data sheet**

CPS Product Inc. - USA

1010 East 31st Street

Hialeah, FL 33013 USA

Phone: (305) 687 - 4121

Email: cs@cpsproducts.com

· **Manufacturer/Supplier:**

CPS Products Canada Ltd.

1324 Blundell Road

Mississauga, ON L4Y 1M5

Canada

Tel: (905) 615-8620

· **email of person responsible:** cs@cpsproducts.com· **Emergency telephone number:**

CHEMTREC International +1 (703) 527-3887 (outside the US), 1-800-424-9300 (in the US) 24 hr

**2 Hazard(s) identification**· **Classification of the substance or mixture**

Eye Damage 1

H318 Causes serious eye damage.

Specific Target Organ Toxicity - Repeated Exposure H373 May cause damage to organs through prolonged or repeated exposure.

· **Label elements**· **GHS label elements**

According to OSHA Hazardous Communication Standard (29 CFR 1910.1200) and the Canadian Controlled Products Regulations.

The product is classified and labeled according to the Globally Harmonized System (GHS).

· **Hazard pictograms**· **Signal word** Danger· **Hazard-determining components of labeling:**

2-[2-(2-butoxyethoxy)ethoxy]ethanol

2,2'-oxybisethanol

· **Hazard statements**

Causes serious eye damage.

May cause damage to organs through prolonged or repeated exposure.

· **Precautionary statements**

Do not breathe fume/spray.

Wash thoroughly after handling.

Wear protective gloves/protective clothing/eye protection/face protection.

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IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

If eye irritation persists: Get medical attention.

Dispose of contents in accordance with local regulations.

- **Other hazards**

- **PBT:** Not applicable.
- **vPvB:** Not applicable.

**3 Composition/information on ingredients**

- **Chemical characterization: Mixtures**

- **Chemical components:**

112-34-5	2-(2-butoxyethoxy)ethanol	10-25%
143-22-6	2-[2-(2-butoxyethoxy)ethoxy]ethanol	10-25%
111-90-0	Diethylene glycol monoethyl ether	2.5-10%
6881-94-3	2-(2-propoxyethoxy)ethanol	2.5-10%
111-46-6	2,2'-oxybisethanol	2.5-10%

- **Other Ingredients**

24800-44-0	1,1'-[propane-1,2-diylbis(oxy)]dipropan-1-ol	10-25%
112-50-5	2-(2-(2-ethoxyethoxy)ethoxy)ethanol	2.5-10%
29011-16-3	Poly[oxy(methyl-1,2-ethanediy)],a-propyl-w-hydroxy-	2.5-10%

- **Additional information:** For the wording of the listed hazard phrases refer to section 16.

**4 First-aid measures**

- **Description of first aid measures**

- **After inhalation:** Supply fresh air; consult doctor in case of complaints.
- **After skin contact:** Immediately wash with water and soap and rinse thoroughly.
- **After eye contact:**  
Rinse opened eye for several minutes under running water. Then consult a doctor.  
Rinse opened eye for several minutes under running water. Then consult a doctor.
- **After swallowing:** Do not induce vomiting; immediately call for medical help.
- **Information for doctor:** Treat Symptomatically
  - **Most important symptoms and effects, both acute and delayed** See section 11.
  - **Indication of any immediate medical attention and special treatment needed**  
No further relevant information available.

**5 Fire-fighting measures**

- **Extinguishing media**

- **Suitable extinguishing agents:**

CO<sub>2</sub>, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

- **For safety reasons unsuitable extinguishing agents:** Water with full jet

- **Special hazards arising from the substance or mixture**

During heating or in case of fire poisonous gases are produced.

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- **Advice for firefighters**
- **Protective equipment:** Mouth respiratory protective device.

**6 Accidental release measures**

- **Personal precautions, protective equipment and emergency procedures**  
Mount respiratory protective device.  
Wear protective equipment. Keep unprotected persons away.  
Keep people at a distance and stay upwind.  
Particular danger of slipping on leaked/spilled product.  
Keep away from ignition sources  
Use respiratory protective device against the effects of fumes/dust/aerosol.
- **Environmental precautions:** Prevent from spreading (e.g. by damming-in or oil barriers).
- **Methods and material for containment and cleaning up:**  
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).  
Use neutralizing agent.  
Dispose contaminated material as waste according to item 13.  
Ensure adequate ventilation.
- **Reference to other sections**  
See Section 7 for information on safe handling.  
See Section 8 for information on personal protection equipment.  
See Section 13 for disposal information.

**7 Handling and storage**

- **Handling:**
  - **Precautions for safe handling**  
Ensure good ventilation/exhaustion at the workplace.  
Prevent formation of aerosols.
  - **Information about protection against explosions and fires:**  
Keep respiratory protective device available.
- **Conditions for safe storage, including any incompatibilities**
  - **Storage:**
    - **Requirements to be met by storerooms and receptacles:**  
See section 10 for incompatible materials.
    - **Information about storage in one common storage facility:** Not required.
    - **Further information about storage conditions:** Keep receptacle tightly sealed.
- **Specific end use(s)** No further relevant information available.

**8 Exposure controls/personal protection**

- **Control parameters**

· <b>Components with limit values that require monitoring at the workplace:</b>	
<b>112-34-5 2-(2-butoxyethoxy)ethanol (10-25%)</b>	
TLV (USA)	TWA: 10* ppm *Inhalable fraction and vapor

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**111-90-0 Diethylene glycol monoethyl ether (2.5-10%)**

WEEL (USA)	TWA: 25 ppm
EV (Canada)	TWA: 165 mg/m <sup>3</sup> , 30 ppm

**111-46-6 2,2'-oxybisethanol (2.5-10%)**

WEEL (USA)	TWA: 10 mg/m <sup>3</sup>
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· **Additional information:** The lists that were valid during the creation were used as basis.

· **Exposure controls**· **Personal protective equipment:**· **General protective and hygienic measures:**

- Keep away from foodstuffs, beverages and feed.
- Immediately remove all soiled and contaminated clothing.
- Store protective clothing separately.
- Avoid contact with the eyes and skin.

· **Breathing equipment:**

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.

· **Protection of hands:**

Chemical resistant protective gloves

· **Eye protection:**

Safety glasses. If potential for splash or mist exists, wear chemical goggles or faceshield.

**9 Physical and chemical properties**· **Information on basic physical and chemical properties**· **General Information**· **Appearance:**

- **Form:** Fluid
- **Color:** Light yellow
- **Odor:** Mild
- **Odor threshold:** Not determined.

· **pH-value:** Not determined.

· **Change in condition**

- **Melting point/Melting range:** Undetermined.
- **Boiling point/Boiling range:** 202 °C

· **Flash point:** 203 °C

· **Flammability (solid, gaseous):** Not applicable.

· **Ignition temperature:** 190 °C

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· <b>Decomposition temperature:</b>	Not determined.
· <b>Auto igniting:</b>	Product is not selfigniting.
· <b>Danger of explosion:</b>	Product does not present an explosion hazard.
· <b>Explosion limits:</b>	
· <b>Lower:</b>	0.9 Vol %
· <b>Upper:</b>	5.9 Vol %
· <b>Vapor pressure at 20 °C:</b>	0.1 hPa
· <b>Density at 20 °C:</b>	1.04 g/cm <sup>3</sup>
· <b>Relative density at 20 °C</b>	1 - 1.1
· <b>Vapor density</b>	Not determined.
· <b>Evaporation rate</b>	Not determined.
· <b>Solubility in / Miscibility with</b>	
· <b>Water:</b>	Not miscible or difficult to mix.
· <b>Partition coefficient (n-octanol/water):</b>	Not determined.
· <b>Viscosity:</b>	
· <b>Dynamic:</b>	Not determined.
· <b>Kinematic:</b>	Not determined.
· <b>Solvent separation test</b>	
· <b>VOC content:</b>	37.50 %
· <b>Other information</b>	No further relevant information available.

## 10 Stability and reactivity

- **Reactivity** No further relevant information available.
- **Chemical stability**
  - **Thermal decomposition / conditions to be avoided:**  
No decomposition if used according to specifications.
- **Possibility of hazardous reactions** No dangerous reactions known.
- **Conditions to avoid** High temperatures
- **Incompatible materials:** Strong acids. Oxidizing agents. Strong alkalis.

## 11 Toxicological information

- **Information on toxicological effects**
  - **Acute toxicity:**

· <b>LD/LC50 values that are relevant for classification:</b>		
<b>112-34-5 2-(2-butoxyethoxy)ethanol</b>		
Oral	LD50	5,660 mg/kg (rat)
Dermal	LD50	4,000 mg/kg (rabbit)

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**111-90-0 Diethylene glycol monoethyl ether**

Oral LD50 5,500 mg/kg (rat)

Dermal LD50 8,500 mg/kg (rabbit)

**6881-94-3 2-(2-propoxyethoxy)ethanol**

Oral LD50 6,661 mg/kg (rat)

Dermal LD50 3,811 mg/kg (mouse)

5,048 mg/kg (rabbit)

**111-46-6 2,2'-oxybisethanol**

Oral LD50 12,565 mg/kg (rat)

Dermal LD50 11,890 mg/kg (rabbit)

· **Primary irritant effect:**· **on the skin:**

May cause mild skin irritation. Prolonged or repeated skin contact as from clothing wet with material may cause dermatitis.

· **on the eye:** Strong irritant with the danger of severe eye injury.· **Sensitization:** No sensitizing effects known.· **Additional toxicological information:**

The product shows the following dangers according to internally approved calculation methods for preparations:

Irritant

· **IARC (International Agency for Research on Cancer)**

None of the ingredients is listed.

· **NTP (National Toxicology Program)**

None of the ingredients is listed.

· **OSHA-Ca (Occupational Safety & Health Administration)**

None of the ingredients is listed.

**12 Ecological information**· **Toxicity**· **Aquatic toxicity:****6881-94-3 2-(2-propoxyethoxy)ethanol**

LC50 (96 h) &gt;96 mg/L (fathead)

· **Persistence and degradability** No further relevant information available.· **Behavior in environmental systems:**· **Bioaccumulative potential** No further relevant information available.· **Mobility in soil** No further relevant information available.· **Additional ecological information:**· **General notes:**

Water hazard class 1 (Self-assessment): slightly hazardous for water

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

Must not reach bodies of water or drainage ditch undiluted or unneutralized.

· **Results of PBT and vPvB assessment**· **PBT:** Not applicable.

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- **vPvB:** Not applicable.
- **Other adverse effects** No further relevant information available.

**13 Disposal considerations**

- **Waste treatment methods**
  - **Recommendation:**  
Must not be disposed of together with household garbage. Do not allow product to reach sewage system.
- **Uncleaned packagings:**
  - **Recommendation:** Disposal must be made according to official regulations.

**14 Transport information**

- |  |                 |
|--|-----------------|
| · <b>UN-Number</b>   |                 |
| · DOT, ADR, IMDG, IATA   | Not Regulated   |
| · TDG  | Not Regulated   |
| · <b>UN proper shipping name</b>   |                 |
| · DOT, IMDG, IATA  | Not Regulated   |
| · TDG  | Not Regulated   |
| · <b>Transport hazard class(es)</b>  |                 |
| · DOT, IMDG, IATA  |                 |
| · Class  | Not Regulated   |
| · TDG  |                 |
| · Class  | Not Regulated   |
| · <b>Packing group</b>   |                 |
| · DOT, IMDG, IATA  | Not Regulated   |
| · TDG  | Not Regulated   |
| · <b>Environmental hazards:</b>  |                 |
| · Marine pollutant:  | No              |
| · <b>Special precautions for user</b>  | Not applicable. |
| · <b>Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code</b> | Not applicable. |
| · <b>UN "Model Regulation":</b>  | Not Regulated   |

**15 Regulatory information**

- **Safety, health and environmental regulations/legislation specific for the substance or mixture**  
No REACH Annex XVII restrictions  
Contains no REACH candidate substance

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· **Section 355 (extremely hazardous substances):**

None of the ingredients is listed.

· **Section 313 (Specific toxic chemical listings):**

112-34-5 2-(2-butoxyethoxy)ethanol

143-22-6 2-[2-(2-butoxyethoxy)ethoxy]ethanol

111-90-0 Diethylene glycol monoethyl ether

112-50-5 2-(2-(2-ethoxyethoxy)ethoxy)ethanol

· **TSCA (Toxic Substances Control Act):**

All components have the value ACTIVE.

· **Proposition 65**· **Chemicals known to cause cancer:**

None of the ingredients is listed.

· **Chemicals known to cause reproductive toxicity for females:**

None of the ingredients is listed.

· **Chemicals known to cause reproductive toxicity for males:**

None of the ingredients is listed.

· **Chemicals known to cause developmental toxicity:**

None of the ingredients is listed.

· **Carcinogenic categories**· **EPA (Environmental Protection Agency)**

None of the ingredients is listed.

· **TLV (Threshold Limit Value)**

None of the ingredients is listed.

· **NIOSH-Ca (National Institute for Occupational Safety and Health)**

None of the ingredients is listed.

· **Canadian substance listings:**· **Canadian Domestic Substances List (DSL)**

112-34-5 2-(2-butoxyethoxy)ethanol

143-22-6 2-[2-(2-butoxyethoxy)ethoxy]ethanol

24800-44-0 1,1'-[propane-1,2-diylbis(oxy)]dipropan-1-ol

111-90-0 Diethylene glycol monoethyl ether

112-50-5 2-(2-(2-ethoxyethoxy)ethoxy)ethanol

6881-94-3 2-(2-propoxyethoxy)ethanol

111-46-6 2,2'-oxybisethanol

· **Canadian Non-Domestic Substances List (NDSL)**

29011-16-3 Poly[oxy(methyl-1,2-ethanediy)],a-propyl-w-hydroxy-

· **Canadian Ingredient Disclosure list (limit 0.1%)**

None of the ingredients is listed.

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Canadian Ingredient Disclosure list (limit 1%)	
112-34-5	2-(2-butoxyethoxy)ethanol
143-22-6	2-[2-(2-butoxyethoxy)ethoxy]ethanol
111-90-0	Diethylene glycol monoethyl ether

## 16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· **Contact:**

Engineering Department  
Engineering Department

· **Issue Date**

21.04.2022  
July 14, 2015

· **Revision Changes:** v 1.0 - original release (July 14, 2015)

· **Abbreviations and acronyms:**

ADR: Agreement concerning the International Carriage of Dangerous Goods by Road  
IMDG: International Maritime Code for Dangerous Goods  
DOT: US Department of Transportation  
IATA: International Air Transport Association  
EINECS: European Inventory of Existing Commercial Chemical Substances  
ELINCS: European List of Notified Chemical Substances  
CAS: Chemical Abstracts Service (division of the American Chemical Society)  
VOC: Volatile Organic Compounds (USA, EU)  
LC50: Lethal concentration, 50 percent  
LD50: Lethal dose, 50 percent  
PBT: Persistent, Bioaccumulative and Toxic  
vPvB: very Persistent and very Bioaccumulative  
NIOSH: National Institute for Occupational Safety  
OSHA: Occupational Safety & Health  
Eye Damage 1: Serious eye damage/eye irritation – Category 1  
Specific Target Organ Toxicity - Repeated Exposure 2: Specific target organ toxicity (repeated exposure) – Category 2

· **\* Data compared to the previous version altered.**

NA