

Safety Data Sheet

according to 1907/2006/EC (REACH), 1272/2008/EC (CLP), and OSHA
GHS

Printing date: 04 April 2018

Revision: 04 April 2018

SECTION 1: Identification of the substance/mixture and of the company/ undertaking

- **1.1 Product identifier**
- **Trade name: PARTS PLUS SUPER HEAVY DUTY BRAKE FLUID**
- **Other means of identification:** No other identifiers
- **1.2 Relevant identified uses of the substance or mixture and uses advised against**
- **Application of the substance / the mixture:** Brake fluid.
- **Uses advised against:** No further relevant information available.
- **1.3 Details of the supplier of the Safety Data Sheet**
- **Manufacturer/Supplier:**
AOCUSA
1601 McCloskey Boulevard
Tampa, FL 33605
Phone: 813-248-1988
Technical or Further Information: 1-800-368-1264
- **1.4 Emergency telephone number:**
ChemTel Inc.
(800)255-3924 (North America)
+1 (813)248-0585 (International)

SECTION 2: Hazards identification

- **2.1 Classification of the substance or mixture**
- **Classification according to Regulation (EC) No 1272/2008**
Classifications listed are applicable to the OSHA GHS Hazard Communication Standard (29CFR1910.1200).
The following Hazard Statements are applicable only to the EU regulations and not the US GHS regulation: H412.
Acute Tox. 4 H302 Harmful if swallowed.
Eye Dam. 1 H318 Causes serious eye damage.
STOT RE 2 H373 May cause damage to the kidneys through prolonged or repeated exposure.
Route of exposure: Oral.
Aquatic Chronic 3 H412 Harmful to aquatic life with long lasting effects.
- **2.2 Label elements**
- **Labelling according to Regulation (EC) No 1272/2008**

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The product is classified and labelled according to the Globally Harmonized System within the United States.

The product is classified and labelled according to the CLP regulation.

- **Hazard pictograms**



GHS05 GHS07 GHS08

- **Signal word** Danger

- **Hazard-determining components of labelling:**

2,2'-oxybisethanol

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

- **Hazard statements**

The following Hazard Statements are applicable only to the EU regulations and not the US GHS regulation: H412.

H302 Harmful if swallowed.

H318 Causes serious eye damage.

H373 May cause damage to the kidneys through prolonged or repeated exposure. Route of exposure: Oral.

H412 Harmful to aquatic life with long lasting effects.

- **Precautionary statements**

P260 Do not breathe mist/vapours/spray.

P264 Wash thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.

P280 Wear protective gloves/protective clothing/eye protection.

P301+P312 IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.

P330 Rinse mouth.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P310 Immediately call a POISON CENTER/doctor.

P314 Get medical advice/attention if you feel unwell.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

- **2.3 Other hazards** There are no other hazards not otherwise classified that have been identified.

- **Results of PBT and vPvB assessment**

- **PBT:** Not applicable.

- **vPvB:** Not applicable.

SECTION 3: Composition/information on ingredients

- **3.2 Mixtures**

- **Components:**

CAS: 143-22-6	2-[2-(2-butoxyethoxy)ethoxy]ethanol	>20-<70%
EINECS: 205-592-6	Eye Dam. 1, H318	
Index number: 603-183-00-0		
Reg.nr.: 01-2119475107-38-XXXX		

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		(Cont'd. from page 2)
CAS: 111-46-6 EINECS: 203-872-2 Index number: 603-140-00-6 Reg.nr.: 01-2119457857-21-XXXX	2,2'-oxybisethanol STOT RE 2, H373 Acute Tox. 4, H302	>5-<60%
CAS: 112-34-5 EINECS: 203-961-6 Index number: 603-096-00-8 Reg.nr.: 01-2119475104-44-XXXX	2-(2-butoxyethoxy)ethanol Eye Irrit. 2, H319	>1-<30%
CAS: 9004-77-7 NLP: 500-012-0	Poly(oxy-1,2-ethanediyl), α -butyl- ω -hydroxy- Eye Dam. 1, H318 Skin Irrit. 2, H315	>1-<9%
CAS: 110-97-4 EINECS: 203-820-9 Index number: 603-083-00-7	1,1'-iminodipropan-2-ol Eye Irrit. 2, H319	<5%
CAS: 128-37-0 EINECS: 204-881-4 Reg.nr.: 01-2119480433-40-XXXX 01-2119555270-46-XXXX	Butylated hydroxytoluene Aquatic Acute 1, H400; Aquatic Chronic 1, H410	<1%

Additional information: For the wording of the listed Hazard Statements refer to section 16.

SECTION 4: First aid measures

4.1 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.
If skin irritation is experienced, consult a doctor.
- **After eye contact:**
Remove contact lenses if worn.
Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- **After swallowing:**
Rinse out mouth and then drink plenty of water.
Do not induce vomiting; call for medical help immediately.

4.2 Most important symptoms and effects, both acute and delayed

- Cramp
- Nausea in case of ingestion.
- Gastric or intestinal disorders when ingested.
- Irritating to eyes.

Hazards:

- Causes serious eye damage.
- Harmful if swallowed.
- May cause damage to the kidneys through prolonged or repeated exposure. Route of exposure: Oral.

4.3 Indication of any immediate medical attention and special treatment needed

- If swallowed, gastric irrigation with added, activated carbon.
- Medical supervision for at least 48 hours.
- May cause neurotoxic effects.

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SECTION 5: Firefighting measures

- **5.1 Extinguishing media**
- **Suitable extinguishing agents:**
 - Carbon dioxide
 - Fire-extinguishing powder
 - Foam
 - Alcohol resistant foam
 - Gaseous extinguishing agents
 - Water haze or fog
- **For safety reasons unsuitable extinguishing agents:** None.
- **5.2 Special hazards arising from the substance or mixture**
 - Formation of toxic gases is possible during heating or in case of fire.
- **5.3 Advice for firefighters**
- **Protective equipment:**
 - Wear self-contained respiratory protective device.
 - Wear fully protective suit.

SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures**
 - Ensure adequate ventilation
 - Use personal protective equipment as required.
 - Particular danger of slipping on leaked/spilled product.
- **6.2 Environmental precautions**
 - Do not allow to enter sewers/ surface or ground water.
 - Inform respective authorities in case of seepage into water course or sewage system.
- **6.3 Methods and material for containment and cleaning up**
 - Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
 - Send for recovery or disposal in suitable receptacles.
- **6.4 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.

SECTION 7: Handling and storage

- **7.1 Precautions for safe handling**
 - Open and handle receptacle with care.
 - Avoid splashes or spray in enclosed areas.
 - Avoid contact with the eyes and skin.
 - Avoid breathing mist/vapours/spray.
 - Keep out of reach of children.
 - Use only in well ventilated areas.
- **Information about fire - and explosion protection:** No special measures required.
- **7.2 Conditions for safe storage, including any incompatibilities**

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- **Requirements to be met by storerooms and receptacles:**
Avoid storage near extreme heat, ignition sources or open flame.
Store in cool, dry conditions in well sealed receptacles.
Use only receptacles specifically permitted for this substance/product.
Unsuitable material for receptacle: aluminium.
Store at 41-95 °F / 5-35 °C.
- **Information about storage in one common storage facility:**
Store away from foodstuffs.
Store away from oxidising agents.
- **7.3 Specific end use(s)** No further relevant information available.

SECTION 8: Exposure controls/personal protection

· 8.1 Control parameters

· **Ingredients with limit values that require monitoring at the workplace:**

111-46-6 2,2'-oxybisethanol

WEL (Great Britain)	Long-term value: 101 mg/m ³ , 23 ppm
OEL (Ireland)	Long-term value: 100 mg/m ³ , 23 ppm
WEEL (USA)	Long-term value: 10 mg/m ³

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

IOELV (EU)	Short-term value: 101,2 mg/m ³ , 15 ppm Long-term value: 67,5 mg/m ³ , 10 ppm
WEL (Great Britain)	Short-term value: 101,2 mg/m ³ , 15 ppm Long-term value: 67,5 mg/m ³ , 10 ppm
OEL (Ireland)	Short-term value: 101,2 mg/m ³ , 15 ppm Long-term value: 67,5 mg/m ³ , 10 ppm IOELV
TLV (USA)	Long-term value: 67,5* mg/m ³ , 10* ppm *Inhalable fraction and vapor

128-37-0 Butylated hydroxytoluene

EL (Canada)	Long-term value: 2 mg/m ³ vapour and inhalable aerosol
EV (Canada)	Long-term value: 2 mg/m ³ inhalable, vapour and aerosol
WEL (Great Britain)	Long-term value: 10 mg/m ³
OEL (Ireland)	Long-term value: 10 mg/m ³
LMPE (Mexico)	Long-term value: 2 mg/m ³ A4, IFV
REL (USA)	Long-term value: 10 mg/m ³
TLV (USA)	Long-term value: 2* mg/m ³ *as inhalable fraction and vapor

- **8.2 Exposure controls**
- **General protective and hygienic measures:**

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The usual precautionary measures are to be adhered to when handling chemicals. (Cont'd. from page 5)

Keep away from foodstuffs, beverages and feed.

Wash hands before breaks and at the end of work.

Do not inhale gases / fumes / aerosols.

Avoid contact with the eyes and skin.

· **Respiratory protection:**

Not required under normal conditions of use.

Use suitable respiratory protective device when aerosol or mist is formed.

For spills, respiratory protection may be advisable.

· **Protection of hands:**



Protective gloves

Wear protective gloves to handle contents of damaged or leaking units.

Gloves are advised for repeated or prolonged contact.

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

· **Material of gloves**

Butyl rubber, BR

Laminated film gloves.

Nitrile rubber, NBR

Natural rubber, NR

PVC gloves

Neoprene gloves

Fluorocarbon rubber (Viton)

· **Eye protection:**



Safety glasses

· **Body protection:** Protective work clothing

· **Limitation and supervision of exposure into the environment:**

No further relevant information available.

· **Risk management measures:** No further relevant information available.

SECTION 9: Physical and chemical properties

· **9.1 Information on basic physical and chemical properties**

· **Appearance**

Form: Liquid

Colour: Yellow

· **Odour:** Ether-like

· **Odour threshold:** Not determined.

· **pH-value:** 9,3-9,5

· **Melting point/freezing point:** -60 °C (-76 °F)

· **Initial boiling point and boiling range:** 253 °C (487,4 °F)

· **Flash point:** >120 °C (>248 °F)

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· Flammability (solid, gas):	Not applicable.
· Auto/Self-ignition temperature:	Not determined.
· Decomposition temperature:	Not determined.
· Explosive properties:	Product does not present an explosion hazard.
· Explosion limits	
Lower:	Not determined.
Upper:	Not determined.
· Oxidising properties	Not determined.
· Vapour pressure:	Not determined.
· Density:	
Relative density at 20 °C (68 °F):	1,0
Vapour density:	>0,01 (air = 1)
Evaporation rate:	0,01 (nBuAc = 1)
· Solubility in / Miscibility with water:	Fully miscible.
· Partition coefficient: n-octanol/water:	Not determined.
· Viscosity	
Dynamic:	Not determined.
Kinematic:	Not determined.
· 9.2 Other information	No further relevant information available.

SECTION 10: Stability and reactivity

- **10.1 Reactivity** No further relevant information available.
- **10.2 Chemical stability** Stable under normal temperatures and pressures.
- **Thermal decomposition / conditions to be avoided:**
No decomposition if used and stored according to specifications.
- **10.3 Possibility of hazardous reactions**
Toxic fumes may be released if heated above the decomposition point.
Reacts with strong oxidising agents.
Reacts with strong acids.
- **10.4 Conditions to avoid**
Excessive heat.
No further relevant information available.
- **10.5 Incompatible materials** Oxidisers, strong bases, strong acids
- **10.6 Hazardous decomposition products** Carbon monoxide and carbon dioxide

SECTION 11: Toxicological information

- **11.1 Information on toxicological effects**

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- **Acute toxicity:**
Harmful if swallowed.

· LD/LC50 values relevant for classification:		
ATE (Acute Toxicity Estimates)		
Oral	LD50	501-2000 mg/kg (man)

143-22-6 2-[2-(2-butoxyethoxy)ethoxy]ethanol		
Oral	LD50	5300 mg/kg (rat)
Dermal	LD50	3540 mg/kg (rabbit)

111-46-6 2,2'-oxybisethanol		
Oral	LD50	1120 mg/kg (man)
		12565 mg/kg (rat)
Dermal	LD50	11890 mg/kg (rabbit)

128-37-0 Butylated hydroxytoluene		
Oral	LD50	>6000 mg/kg (rat)
Dermal	LD50	>2000 mg/kg (rat)

- **Primary irritant effect**
- **Skin corrosion/irritation:** Based on available data, the classification criteria are not met.
- **Serious eye damage/irritation:**
Causes serious eye damage.
- **Respiratory or skin sensitisation:** Based on available data, the classification criteria are not met.

· IARC (International Agency for Research on Cancer):		
None of the ingredients are listed.		

- **Probable routes of exposure:**

Ingestion.

Inhalation.

Eye contact.

Skin contact.

- **Germ cell mutagenicity:** Based on available data, the classification criteria are not met.
- **Carcinogenicity:** Based on available data, the classification criteria are not met.
- **Reproductive toxicity:** Based on available data, the classification criteria are not met.
- **STOT-single exposure:** Based on available data, the classification criteria are not met.
- **STOT-repeated exposure:**
May cause damage to the kidneys through prolonged or repeated exposure. Route of exposure: Oral.
- **Aspiration hazard:** Based on available data, the classification criteria are not met.

SECTION 12: Ecological information

- **12.1 Toxicity**
- **Aquatic toxicity:**
Harmful to aquatic life with long lasting effects.

128-37-0 Butylated hydroxytoluene	
LC50	1,1 mg/l (fish)
EC50	0,48 mg/l (daphnia)

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- **12.2 Persistence and degradability** No further relevant information available. (Cont'd. from page 8)
- **12.3 Bioaccumulative potential** No further relevant information available.
- **12.4 Mobility in soil** No further relevant information available.
- **Additional ecological information:**
- **General notes:**

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

- **12.5 Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **12.6 Other adverse effects** No further relevant information available.

SECTION 13: Disposal considerations

- **13.1 Waste treatment methods**
- **Recommendation**
Contact waste processors for recycling information.
The user of this material has the responsibility to dispose of unused material, residues and containers in compliance with all relevant local, state and federal laws and regulations regarding treatment, storage and disposal for hazardous and nonhazardous wastes.
- **Uncleaned packaging:**
- **Recommendation:** Disposal must be made according to official regulations.
- **Recommended cleansing agents:** Water, if necessary together with cleansing agents.

SECTION 14: Transport information

- | | |
|---|-----------------|
| <ul style="list-style-type: none"> · 14.1 UN-Number · DOT, ADR, IMDG, IATA | Not Regulated |
| <ul style="list-style-type: none"> · 14.2 UN proper shipping name · DOT, ADR, IMDG, IATA | Not Regulated |
| <ul style="list-style-type: none"> · 14.3 Transport hazard class(es) · DOT, ADR, IMDG, IATA · Class | Not Regulated |
| <ul style="list-style-type: none"> · 14.4 Packing group · DOT, ADR, IMDG, IATA | Not Regulated |
| <ul style="list-style-type: none"> · 14.5 Environmental hazards: · Marine pollutant: | No |
| <ul style="list-style-type: none"> · 14.6 Special precautions for user | Not applicable. |
| <ul style="list-style-type: none"> · 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code | Not applicable. |

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SECTION 15: Regulatory information

· 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

- United States (USA)
- SARA

· Section 355 (extremely hazardous substances):

None of the ingredients are listed.

· Section 313 (Specific toxic chemical listings):

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

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

· TSCA (Toxic Substances Control Act):

All ingredients are listed.

· Proposition 65 (California):



WARNING: This product can expose you to chemicals including ethylene glycol, which is known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

· EPA (Environmental Protection Agency)

None of the ingredients are listed.

· IARC (International Agency for Research on Cancer)

None of the ingredients are listed.

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

None of the ingredients are listed.

· Canadian Domestic Substances List (DSL)

All ingredients are listed.

· Directive 2012/18/EU

- Named dangerous substances - ANNEX I None of the ingredients are listed.

· Other regulations, limitations and prohibitive regulations

· Substances of very high concern (SVHC) according to REACH, Article 57

None of the ingredients are listed.

- 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

SECTION 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.

· Relevant phrases

H302 Harmful if swallowed.

H315 Causes skin irritation.

H318 Causes serious eye damage.

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H319 Causes serious eye irritation.

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H373 May cause damage to the kidneys through prolonged or repeated exposure. Route of exposure: Oral.

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

Abbreviations and acronyms:

ADR: European 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

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

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)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bio-accumulable, Toxic

SVHC: Substances of Very High Concern

vPvB: very Persistent and very Bioaccumulative

Acute Tox. 4: Acute toxicity – Category 4

Skin Irrit. 2: Skin corrosion/irritation – Category 2

Eye Dam. 1: Serious eye damage/eye irritation – Category 1

Eye Irrit. 2: Serious eye damage/eye irritation – Category 2

STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2

Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1

Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1

Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3

Sources

Website, European Chemicals Agency (echa.europa.eu)

Website, US EPA Substance Registry Services (ofmpub.epa.gov/sor internet/registry/substreg/home/overview/home.do)

Website, Chemical Abstracts Registry, American Chemical Society (www.cas.org)

Patty's Industrial Hygiene, 6th ed., Rose, Vernon, ed. ISBN: 978-0-470-07488-6

Casarett and Doull's Toxicology: The Basic Science of Poisons, 8th Ed., Klaassen, Curtis D., ed., ISBN: 978-0-07-176923-5.

Safety Data Sheets, Individual Manufacturers

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