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**SAFETY DATA SHEET**

This Safety Data Sheet is provided in compliance with the EC Regulations 1907/2006, 1272/2008, 2015/830 and 2020/878

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

## 1.1 Product identifier

- Product Name: Weldtite Cyclo DOT 5.1 Brake Fluid
- Product Part Number: 03040 (125ml)
- UFI: HU28-81RN-0008-CEER

## 1.2 Relevant identified uses of the substance or mixture and uses advised against

- Use of the substance/mixture: Hydraulic fluid

## 1.3 Details of the supplier of the safety data sheet

- Name of Supplier: Weldtite Products Ltd
- Address of Supplier: Unit 9, Harrier Road, Humber Bridge Industrial Estate, Barton upon Humber, North Lincolnshire, DN18 5RP, UK
- Telephone: +44 (0)1652 660000
- Email: Sales@weldtite.co.uk Web: www.weldtite.cc
- EU Authorised Representative: Comply Express Unipessoal Limitada, StartUp Madeira, EV141, Campus daPenteada, 9020 105 Funchal, Portugal  
Tel: (+351) 300509778  
Email : info@complyexpress.com

## 1.4 Emergency telephone number

- Emergency Telephone: UK: Contact the NHS Information Service (dial 111, 24hr service)
  - Company: \*\*44 (0)1652 660000 (08.30 to16.30 Mon - Fri)
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**SECTION 2: Hazards identification**

## 2.1 Classification of the substance or mixture

- CLP: Repr. 2

## 2.2 Label elements



- Signal Word: Warning
- Contains: Tris[2-[2-(2-methoxyethoxy)ethoxy]ethyl] orthoborate

## Hazard statements

H361fd - Suspected of damaging fertility. Suspected of damaging the unborn child.

## Precautionary statements

P101 - If medical advice is needed, have product container or label at hand.  
P102 - Keep out of reach of children.  
Wash hands thoroughly after using this substance  
P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P337+P313 - If eye irritation persists: Get medical advice/attention.  
P301+P310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.

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**SECTION 2: Hazards identification (....)**

P501 - Dispose of contents/container to an authorised waste collection point

## 2.3 Other hazards

- Not a PBT according to REACH Annex XIII
- The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Common Delegated Regulation (EU) 2017/2010 or Common Regulation (EU) 2018/605 at a concentration equal or greater than 0.1%.

**SECTION 3: Composition/information on ingredients**

## 3.2 Mixtures

## Tris[2-[2-(2-methoxyethoxy)ethoxy]ethyl]orthoborate

CAS Number: 30989-05-0  
EC Number: 250-418-4  
REACH Registration Number: 01-2119462824-33-XXXX  
Concentration: 80-95%  
Categories: Repr. 2  
H Statements: H361fd

## Butyl Triglycol

CAS Number: 143-22-6  
EC Number: 205-592-6  
REACH Registration Number: 01-2119475107-38-XXXX  
Concentration: 10-15%  
Categories: Eye Irrit. 2  
H Statements: H319  
Specific Concentration Limits: Eye Dam. 1, H318 (SCL: 30.00%)  
Eye Irrit. 2, H319 (SCL: 20.00%)  
Index No.: 603-183-00-0

## 3,6,9,12-tetraoxahexadecan-1-ol

CAS Number: 1559-34-8  
EC Number: 216-322-1  
Concentration: 1-3%  
Categories: Eye Irrit. 2  
H Statements: H319

## 2-(2-butoxyethoxy)ethanol

CAS Number: 112-34-5  
EC Number: 203-961-6  
REACH Registration Number: 01-2119475104-44-XXX  
Concentration: <1%  
Categories: Eye Irrit. 2  
H Statements: H319  
Index No.: 603-096-00-8

## 2-(2-methoxyethoxy)ethanol

CAS Number: 111-77-3  
EC Number: 203-906-6  
REACH Registration Number: 01-2119475100-52-XXXX  
Concentration: <1%  
Categories: Repr. 2

### SECTION 3: Composition/information on ingredients (....)

H Statements: H361d  
Specific Concentration Limits: Repr. 1A, H360D (SCL: 3.00%)  
Index No.: 603-107-00-6

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### SECTION 4: First aid measures

#### 4.1 Description of first aid measures

- In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible)
- When in doubt or symptoms persist, seek medical attention
- Never give anything by mouth to an unconscious person

#### Inhalation

If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.  
When in doubt or symptoms persist, seek medical attention

#### Contact with skin

After contact with skin, take off immediately all contaminated clothing, and wash immediately with plenty of soap and water  
Do not use solvents to clean skin  
If skin irritation occurs: Get medical advice/attention.

#### Contact with eyes

If substance has got into eyes, immediately wash out with plenty of water for several minutes  
Remove contact lenses, if present and easy to do. Continue rinsing.  
If eye irritation persists: Get medical advice/attention.  
Continue flushing with water until medical help arrives

#### Ingestion

If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label  
Rinse mouth with water (only if the person is conscious)  
Give plenty of water to drink

#### 4.2 Most important symptoms and effects, both acute and delayed

- See Section 2+11

#### 4.3 Indication of any immediate medical attention and special treatment needed

- IF exposed or concerned: Get medical advice/attention.
  - Treat symptomatically
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### SECTION 5: Firefighting measures

#### 5.1 Extinguishing media

- In case of fire use water spray or fog, alcohol resistant foam, dry chemical or carbon dioxide
- Do not use water jets

#### 5.2 Special hazards arising from the substance or mixture

- May give off noxious and toxic fumes in a fire
- Decomposition products may include carbon oxides

#### 5.3 Advice for firefighters

- Wear Breathing Apparatus
  - Wear full protective clothing including chemical protection suit
  - Keep container(s) exposed to fire cool, by spraying with water
  - Prevent run off water from entering drains if possible
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### SECTION 6: Accidental release measures

## SECTION 6: Accidental release measures (....)

### 6.1 Personal precautions, protective equipment and emergency procedures

- Wash thoroughly after dealing with spillage
- Keep people and animals away
- Wear protective clothing as per section 8

### 6.2 Environmental precautions

- Do not empty into drains
- Do not allow to enter public sewers and watercourses
- If contamination of drainage systems or water courses is unavoidable, immediately inform appropriate authorities

### 6.3 Methods and material for containment and cleaning up

- Soak up with inert absorbent
- Sweep or shovel-up spillage and remove to a safe place
- Remove contaminated material to safe location for subsequent disposal

### 6.4 Reference to other sections

- See Section 8 + 13
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## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

- Avoid exposure - obtain special instructions before use
- Do not breathe spray/mists
- Do not eat, drink or smoke when using this product.
- Dispose of contents/container to an authorised waste collection point

### 7.2 Conditions for safe storage, including any incompatibilities

- Keep only in the original container in a cool, well ventilated place
- Keep container tightly closed
- Avoid contact with acid
- Avoid contact with alkalis (strong bases)
- Keep away from oxidising substances
- Keep away from reducing agents

### 7.3 Specific end use(s)

- See Section 1.2
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## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

#### 2-(2-butoxyethoxy)ethanol

WEL (long term): 10 ppm 67.5 mg/m<sup>3</sup> (8 hour TWA)

WEL (short term): 15 ppm 101.2 mg/m<sup>3</sup>

#### 2-(2-methoxyethoxy)ethanol

WEL (long term): 23 ppm 101 mg/m<sup>3</sup> (8 hour TWA)

#### Tris[2-[2-(2-methoxyethoxy)ethoxy]ethyl]orthoborate

DNEL (Industry; dermal, long term systemic effects): 8.3 mg/kg bw/day

DNEL (Industry; inhalational, long term systemic effects): 29.1 mg/m<sup>3</sup>

#### Butyl Triglycol

DNEL (Industry; dermal, long term systemic effects): 50 mg/kg bw/day

DNEL (Industry; inhalational, long term systemic effects): 195 mg/m<sup>3</sup>

#### 2-(2-butoxyethoxy)ethanol

**SECTION 8: Exposure controls/personal protection (....)**

DNEL (Industry; dermal, long term systemic effects): 20 mg/kg bw/day

DNEL (Industry; inhalational, long term systemic effects): 67 mg/m<sup>3</sup>

## 2-(2-methoxyethoxy)ethanol

DNEL (Industry; dermal, long term systemic effects): 2.2 mg/kg bw/day

DNEL (Industry; inhalational, long term systemic effects): 50.1 mg/m<sup>3</sup>

## 2-(2-butoxyethoxy)ethanol

PNEC (Fresh water): 3.9 mg/l

PNEC (STP): 200 mg/l

## 2-(2-methoxyethoxy)ethanol

PNEC (Fresh water): 12 mg/l

PNEC (STP): 10000 mg/l

## Butyl Triglycol

PNEC (Fresh water): 5 mg/l

PNEC (STP): 200 mg/l

## Tris[2-[2-(2-methoxyethoxy)ethoxy]ethyl]orthoborate

PNEC (Fresh water): 2.112 mg/l

PNEC (STP): 100 mg/l

## 8.2 Exposure controls

- Engineering controls should be provided which maintain airborne concentrations below the relevant guidelines
- Wear goggles giving complete eye protection
- BS EN PPE Codes: EN 166
- Wear butyl rubber gloves
- Wear nitrile gloves
- BS EN PPE Codes: EN 374-2/-3

**SECTION 9: Physical and chemical properties**

## 9.1 Information on basic physical and chemical properties

- Physical state: Liquid
- Colour: Amber
- Odour: Very small
- pH: 7.2 - 7.6 at 100 % concentration
- Relative density: 1.02-1.07
- Kinematic viscosity: 5-10 mm<sup>2</sup>/s
- Melting point/Range: <-50 °C
- Boiling Point/Range: 260 °C
- Vapour pressure: 1 mbar
- Flash point: >120 °C (OC)
- Auto-ignition point: >280 °C
- Partition coefficient : n-Octanol/water 1.5
- Decomposition temperature: 300 °C
- Flammability: Not flammable
- Solubility in water: Completely soluble in water

## 9.2 Other information

- No information available

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

- No hazardous reactions known if used for its intended purpose

### 10.2 Chemical stability

- This article is considered stable under normal conditions

### 10.3 Possibility of hazardous reactions

- No hazardous reactions known if used for its intended purpose

### 10.4 Conditions to avoid

- No special precautions are required for this product

### 10.5 Incompatible materials

- Avoid contact with acids and alkalis
- Avoid contact with oxidising substances
- Avoid contact with reducing agents

### 10.6 Hazardous decomposition products

- No hazardous decomposition products known
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## SECTION 11: Toxicological information

### 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

#### Acute toxicity

Estimated LD<sub>50</sub> (oral) (ATE) : >2000 mg/kg  
Estimated LD<sub>50</sub> (dermal) (ATE) : >4000 mg/kg  
Estimated LD<sub>50</sub> (inhalational) (ATE) : >20 mg/l/4hr (gas/vapour)

#### Skin corrosion/irritation

Based on the available data, the classification criteria are not met  
Repeated exposure may cause skin dryness or cracking

#### Serious eye damage/irritation

Based on the available data, the classification criteria are not met

#### Respiratory or skin sensitisation

Based on the available data, the classification criteria are not met

#### Germ cell mutagenicity

Based on the available data, the classification criteria are not met

#### Carcinogenicity

Based on the available data, the classification criteria are not met

#### Reproductive toxicity

Suspected of damaging fertility or the unborn child.

#### STOT (specific target organ toxicity) - single exposure

Based on the available data, the classification criteria are not met

#### STOT (specific target organ toxicity) - repeated exposure

Based on the available data, the classification criteria are not met

#### Aspiration hazard

Based on the available data, the classification criteria are not met

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## **SECTION 11: Toxicological information (....)**

### 11.2 Information on other hazards

- Reproductive Effects: Possible risk of harm to the unborn child, Possible risk of impaired fertility
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## **SECTION 12: Ecological information**

### 12.1 Toxicity

- Presents little or no hazard to the environment
- LC<sub>50</sub> (fish): >100 mg/l (96 hr)

### 12.2 Persistence and degradability

- Readily biodegradable

### 12.3 Bioaccumulative potential

- Bioaccumulation is insignificant

### 12.4 Mobility in soil

- Completely soluble in water
- This substance will leach into the soil

### 12.5 Results of PBT and vPvB assessment

- Not a PBT according to REACH Annex XIII

### 12.6 Endocrine disrupting properties

- The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Common Delegated Regulation (EU) 2017/2010 or Common Regulation (EU) 2018/605 at a concentration equal or greater than 0.1%.

### 12.7 Other adverse effects

- No information available
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## **SECTION 13: Disposal considerations**

### 13.1 Waste treatment methods

- Disposal should be in accordance with local, state or national legislation
  - EU Waste Codes: 16 01 13
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## **SECTION 14: Transport information**

Not classified as hazardous for transport

### 14.1 UN number or ID number

- UN No.: Not applicable

### 14.2 UN proper shipping name

- Proper Shipping Name: Not applicable

### 14.3 Transport hazard class(es)

- Hazard Class: Not applicable

### 14.4 Packing group

- Packing Group: Not applicable

### 14.5 Environmental hazards

- Not Classified

### 14.6 Special precautions for user

## SECTION 14: Transport information (....)

- Not Classified

### 14.7 Maritime transport in bulk according to IMO instruments

- Not applicable
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## SECTION 15: Regulatory information

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

- The Management of Health and Safety Regulations 1992 applies in the UK
- The Health and Safety at Work Act applies in the UK
- The CLP Regulations apply in the UK
- The List of Wastes (England) Regulations 2005 apply in the UK
- Where UK Regulations are quoted, then for other nations the equivalent regulations should be identified
- Water Hazard Class (Company): 1

### 15.2 Chemical safety assessment

- A chemical safety assessment (CSA) for this product has not yet been completed
  - This Safety Data Sheet does not constitute a workplace risk assessment
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## SECTION 16: Other information

Text not given with phrase codes where they are used elsewhere in this safety data sheet:- H319: Causes serious eye irritation. H361d: Suspected of damaging the unborn child. H361fd: Suspected of damaging fertility. Suspected of damaging the unborn child.

### Abbreviations and acronyms:

ADR = Accord européen relatif au transport international des marchandises Dangereuses par Route

RID = Règlement concernant le transport international ferroviaire de marchandises dangereuses

ADN = Accord européen relatif au transport international des marchandises dangereuses par voie de navigation intérieure

ATE = acute toxicity estimate

CAS = Chemical Abstracts Service

CLP = Classification, Labelling and Packaging

DMEL = Derived Minimum Effect Level

DNEL = Derived No Effect Level

EC50 = Median effective concentration

ECB = European Chemicals Bureau

EEC = European Economic Community

EINECS = European Inventory of Existing Commercial Chemical Substances

ELINCS = European List of Notified Chemical Substances

GHS = Globally Harmonized System of Classification and Labelling of Chemicals

IATA = International Air Transport Association

IBC-Code = International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk

IC50 = Inhibition concentration, 50%

IMDG = International Maritime Code for Dangerous Goods

IUCLID = International Uniform Chemical Information Database

LC50 = Lethal concentration, 50%

LD50 = Median lethal dose

LC0 = lethal concentration, 0%

LOAEL = lowest-observed-adverse-effect level

MARPOL = International Convention for the Prevention of Marine Pollution from Ships

NOAEL = No Observed Adverse Effect Level

NOEC = No Observed Effect Concentration

PBT = Persistent, Bioaccumulative and Toxic substance

PNEC = Predicted No-Effect Concentration

REACH = Registration, Evaluation, Authorisation and Restriction of Chemicals

STP = Sewage Treatment Plant

TLV®/TWA = Threshold limit value – time-weighted average

TLV®STEL = Threshold limit value – short-time exposure limit

VOC = Volatile Organic Compounds

vPvB = very Persistent and very Bioaccumulative

Due to major changes made, this Safety Data Sheet should be read entirely as new.



## **SECTION 16: Other information (....)**

### Disclaimer

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy themselves as to the suitability of such information for their own particular use.