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# SECTION 1: Identification of the substance / preparation and of the company

### 1.1 Product identifier

SWAG 10 92 1754 brake fluid Article number 99 90 0001, 30 92 6461, 10 92 1754

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

#### 1.2.1 Relevant uses

brake fluid

1.2.2 Uses advised against

None known.

# 1.3 Details of the supplier of the safety data sheet

Company SWAG Autoteile GmbH

Am Kiesberg 4-6

42117 Wuppertal / GERMANY Phone +49 (0)202 26454-0 Fax +49 (0)202 26454-5000 Homepage www.swag.de E-mail info@swag.de

Address enquiries to

Technical information info@swag.de Safety Data Sheet info@swag.de

1.4 Emergency phone

**Advisory body** +49 (0)89-19240 (24h) (english)

**Company** +49 (0)202 26454-0

# **SECTION 2: Hazards identification**

# 2.1 Classification of the substance or mixture

# 2.1.1 Classification according to Regulation (EC) No 1272/2008 [CLP]

not determined

# 2.1.2 Classification according to Regulation 67/548/EEC or 1999/45/EC

No classification.

### 2.2 Label elements

The product does not require a hazard warning label in accordance with EC-directives.

### Labelling according to Regulation 67/548/EEC or 1999/45/EC

Hazard symbols none R-phrases none

Special labelling Safety data sheet available for professional user on request.

# 2.3 Other hazards

Physico-chemical hazards No particular hazards known.

**Human health dangers** Frequent persistent contact with the skin can cause skin irritation.

If swallowed or in the event of vomiting, risk of product entering the lungs.

**Environmental hazards**Does not contain any PBT or vPvB substances.

Other hazards none



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# **SECTION 3: Composition / Information on ingredients**

#### Product-type:

The product is a mixture.

Range [%]	Substance
<15	2-(2-(2-Butoxyethoxy)ethoxy)ethanol
	CAS: 143-22-6, EINECS/ELINCS: 205-592-6, EU-INDEX: 603-183-00-0
	GHS/CLP: Eye Dam. 1: H318
	EEC: Xi, R 41
<10	2,2' -oxybisethanol
	CAS: 111-46-6, EINECS/ELINCS: 203-872-2, EU-INDEX: 603-140-00-6
	GHS/CLP: Acute Tox. 4: H302
	EEC: Xn, R 22
<2	1,1'-Iminodipropan-2-ol
	CAS: 110-97-4, EINECS/ELINCS: 203-820-9, EU-INDEX: 603-083-00-7
	GHS/CLP: Eye Irrit. 2: H319
	EEC: Xi, R 36

Comment on component parts

Substances of Very High Concern - SVHC: substances are not contained or are below 0,1%.

For full text of H-statements and R-phrases: see SECTION 16.

#### **SECTION 4: First aid measures**

#### 4.1 Description of first aid measures

General information Change soaked clothing.

**Inhalation** Ensure supply of fresh air.

In the event of symptoms seek for medical treatment.

**Skin contact** When in contact with the skin, clean with soap and water.

Consult a doctor if skin irritation persists.

**Eye contact** Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy

to do. Continue rinsing.

If eye irritation persists: Get medical advice/attention.

Ingestion Consult a doctor immediately.

Do not induce vomiting.

Rinse out mouth and give plenty of water to drink.

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

Headache

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

Treat symptomatically.

Forward this sheet to the doctor.

### **SECTION 5: Fire-fighting measures**

# 5.1 Extinguishing media

Suitable extinguishing media Carbon dioxide.

Water spray jet. Dry powder. Foam.

Extinguishing media that must not

be used

Full water jet.

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

Unknown risk of formation of toxic pyrolysis products.

Nitrogen oxides (NOx). Carbon monoxide (CO)



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#### 5.3 Advice for firefighters

Use self-contained breathing apparatus.

Fire residues and contaminated firefighting water must be disposed of in accordance within the local regulations.

#### **SECTION 6: Accidental release measures**

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

High risk of slipping due to leakage/spillage of product.

Forms slippery surfaces with water.

### 6.2 Environmental precautions

Prevent spread over a wide area (e.g. by containment or oil barriers). Do not discharge into the drains/surface waters/groundwater.

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

Take up with absorbent material (e.g. general-purpose binder). Dispose of absorbed material in accordance within the regulations.

#### 6.4 Reference to other sections

See SECTION 8+13

# **SECTION 7: Handling and storage**

### 7.1 Precautions for safe handling

No special measures necessary if used correctly.

The product is combustible.

Wash hands before breaks and after work. Remove soiled or soaked clothing immediately.

Use barrier skin cream.

Do not eat, drink, smoke or take drugs at work.

Contaminated work clothing should not be allowed out of the workplace.

Take off contaminated clothing and wash before reuse.

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

Keep only in original container.

Prevent penetration into the ground.

Do not store together with oxidizing agents.

The product is hygroscopic.

Keep in a cool place. Store in a dry place.

Keep container tightly closed.

Protect from heat/overheating.

Keep container in a well-ventilated place.

#### 7.3 Specific end use(s)

See product use, SECTION 1.2

# SECTION 8: Exposure controls / personal protection

# 8.1 Control parameters

Ingredients with occupational exposure limits to be monitored (GB)

Range [%]	Substance
<10	2,2' -oxybisethanol
	CAS: 111-46-6, EINECS/ELINCS: 203-872-2, EU-INDEX: 603-140-00-6
	Long-term exposure: 23 ppm, 101 mg/m³



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8.2 Exposure controls

Additional advice on system design 
Ensure adequate ventilation on workstation.

**Eye protection** Safety glasses.

**Hand protection** The details concerned are recommendations. Please contact the glove supplier for further

information.

Nitrile rubber, >480 min (EN 374). Oil-resistant protective clothing.

Skin protectionOil-resistant protective clothing.OtherAvoid contact with eyes and skin.

Do not inhale vapours.

Personal protective equipment should be selected specifically for the working place, depending on concentration and quantity of the hazardous substances handled. The resistance of these equipments to chemicals should be ascertained with the respective

supplier.

**Respiratory protection** Breathing apparatus in the event of high concentrations.

Short term: filter apparatus, filter A.

Thermal hazards none

Delimitation and monitoring of the

environmental exposition

See SECTION 6+7.

# **SECTION 9: Physical and chemical properties**

### 9.1 Information on basic physical and chemical properties

Form liquid
Color yellow
Odor characteristic
Odour threshold not determined

**pH-value** 7 - 9 (20°C) (FMVSS 116)

 pH-value [1%]
 not determined

 Boiling point [°C]
 > 260 (FMVSS 116)

 Flash point [°C]
 > 125 (DIN ISO 2719)

 Flammability [°C]
 > 200 (DIN 51794)

Lower explosion limit 1,5 Vol.%
Upper explosion limit not determined

Oxidizing properties no

Vapour pressure/gas pressure [kPa] < 0,1 (20°C)

**Density [g/ml]** ~ 1,065 (DIN 51757) (20 °C / 68,0 °F)

Bulk density [kg/m³]not applicableSolubility in watermisciblePartition coefficient [n-octanol/water]not determined

**Viscosity** ~15 -17mm²/s (20°C) (FMVSS 116)

Relative vapour density determined

in air

not determined

Evaporation speed not determined

Melting point [°C] <-70 (DIN 51583)

Autoignition temperature [°C] no

**Decomposition temperature [°C]** not determined

9.2 Other information

No information available.

### **SECTION 10: Stability and reactivity**

# 10.1 Reactivity

No dangerous reactions known if used as directed.

# 10.2 Chemical stability

Stable under normal ambient conditions (ambient temperature).



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### 10.3 Possibility of hazardous reactions

Reactions with strong oxidizing agents.

### 10.4 Conditions to avoid

See SECTION 7.2.

### 10.5 Incompatible materials

not determined

### 10.6 Hazardous decomposition products

No hazardous decomposition products known.

### **SECTION 11: Toxicological information**

# 11.1 Information on toxicological effects

#### **Acute toxicity**

Range [%]	Substance
<2	1,1'-Iminodipropan-2-ol, CAS: 110-97-4
	LD50, oral, Rat: 4765 mg/kg.
<15	2-(2-(2-Butoxyethoxy)ethoxy)ethanol, CAS: 143-22-6
	LD50, dermal, Rabbit: > 2000 mg/kg.
	LD50, oral, Rat: > 2000 mg/kg.
<10	2,2' -oxybisethanol, CAS: 111-46-6
	LD50, dermal, Rabbit: 11890 mg/kg.
	LD50, oral, Rat: 12565 mg/kg.

Serious eye damage/irritation not determined Skin corrosion/irritation not determined Respiratory or skin sensitisation not determined Specific target organ toxicity not determined single exposure Specific target organ toxicity not determined repeated exposure Mutagenicity not determined Reproduction toxicity not determined Carcinogenicity not determined General remarks

No classification on the basis of the calculation procedure of the preparation directive.

Toxicological data of complete product are not available.

The toxicity data listed pertaining to the ingredients are intended for those working in the medicinal professions, experts for occupational health and safety and toxicologists. The toxicity data pertaining to the ingredients were supplied by the manufacturers of raw materials.



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# **SECTION 12: Ecological information**

### 12.1 Toxicity

Range [%]	Substance
<2	1,1'-Iminodipropan-2-ol, CAS: 110-97-4
	LC50, (96h), Brachidanio rerio: > 100 - 2200 mg/l.
	EC50, (72h), Algae: 270 mg/l.
	EC50, (48h), Daphnia magna: 2777 mg/l.
<15	2-(2-(2-Butoxyethoxy)ethoxy)ethanol, CAS: 143-22-6
	EC50, (24h), Daphnia magna: > 100 mg/l.
	EC50, (72h), Scenedesmus subspicatus: > 100 mg/l.
<10	2,2' -oxybisethanol, CAS: 111-46-6
	LC50, (96h), fish: > 1000 mg/l.
	EC50, (24h), Daphnia magna: > 10000 mg/l.

### 12.2 Persistence and degradability

Behaviour in environment

compartments

not determined

Behaviour in sewage plant

not determined

**Biological degradability** 

The product is biodegradable.

### 12.3 Bioaccumulative potential

No information available.

# 12.4 Mobility in soil

No information available.

### 12.5 Results of PBT and vPvB assessment

Based on all available information not to be classified as PBT or vPvB respectively.

### 12.6 Other adverse effects

No classification on the basis of the calculation procedure of the preparation directive.

The toxicity data pertaining to the ingredients were supplied by the manufacturers of raw materials.

#### **SECTION 13: Disposal considerations**

### 13.1 Waste treatment methods

Waste material must be disposed of in accordance with the Directive on waste 2008/98/EC as well as other national and local regulations. It is not possible to determine a waste code for this product in accordance with the European Waste Catalogue (EWC) since it is only possible to classify it according to how it is used by the customer. The waste code is to be determined within the EU in liaison with the waste-disposal operator.

#### **Product**

For recycling, consult manufacturer.

In according to RoHS!

Waste no. (recommended) 160113\*

Contaminated packaging

Uncontaminated packaging may be taken for recycling.

Packaging that cannot be cleaned should be disposed of as for product.

Waste no. (recommended) 150102

150104 150110\*



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# **SECTION 14: Transport information**

#### 14.1 UN number

See SECTION 14.2 in accordance with UN shipping name

14.2 UN proper shipping name

Transport by land according to ADR/RID

NO DANGEROUS GOODS

Inland navigation (ADN) NO DANGEROUS GOODS

Marine transport in accordance with NOT CLASSIFIED AS "DANGEROUS GOODS"

**IMDG** 

Air transport in accordance with IATA NOT CLASSIFIED AS "DANGEROUS GOODS"

### 14.3 Transport hazard class(es)

See SECTION 14.2 in accordance with UN shipping name

#### 14.4 Packing group

See SECTION 14.2 in accordance with UN shipping name

### 14.5 Environmental hazards

See SECTION 14.2 in accordance with UN shipping name

### 14.6 Special precautions for user

Relevant information under SECTION 6 to 8.

# 14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

not applicable

### **SECTION 15: Regulatory information**

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

**EEC-REGULATIONS** 1967/548 (1999/45); 1991/689 (2001/118); 1999/13; 2004/42; 648/2004; 1907/2006 (Reach);

1272/2008; 75/324/EEC (2008/47/EC); 453/2010/EC

TRANSPORT-REGULATIONS DOT-Classification, ADR (2013); IMDG-Code (2013, 36. Amdt.); IATA-DGR (2013).

**NATIONAL REGULATIONS (GB):** EH40/2005 Workplace exposure limits (Second edition, published December 2011).

CHIP 3/ CHIP 4

- Observe employment restrictions

for people

- VOC (1999/13/CE) 0 %

### 15.2 Chemical safety assessment

not applicable

### **SECTION 16: Other information**

### 16.1 R-phrases (SECTION 3)

R 41: Risk of serious damage to eyes.

R 22: Harmful if swallowed. R 36: Irritating to eyes.

# 16.2 Hazard statements (SECTION 3)

H319 Causes serious eye irritation. H302 Harmful if swallowed. H318 Causes serious eye damage.



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#### 16.3 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

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

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

PBT = Persistent, Bioaccumulative and Toxic substance

PNEC = Predicted No-Effect Concentration

REACH = Registration, Evaluation, Authorisation and Restriction of Chemicals

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

### 16.4 Other information

**Modified position** 

SECTION 4 been added: Forward this sheet to the doctor.

SECTION 4 been added: If eye irritation persists: Get medical advice/attention.

SECTION 4 been added: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

SECTION 7 been added: Take off contaminated clothing and wash before reuse.

SECTION 7 been added: Contaminated work clothing should not be allowed out of the workplace.