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

#### 1.1 Product identifier

antifreeze

Article number: 99 90 2374 UFI: MCR3-V232-P00K-VKCK

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

#### 1.2.1 Relevant uses

Anti-freezing agents

#### 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 telephone number

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

#### **SECTION 2: Hazards identification**

#### 2.1 Classification of the substance or mixture [REGULATION (GB) CLP]

Acute Tox. 4: H302 Harmful if swallowed.

STOT RE 2: H373 May cause damage to organs through prolonged or repeated exposure.

#### 2.2 Label elements

The product is required to be labelled in accordance with regulation CLP.

Hazard pictograms





Signal word WARNING
Contains: Ethylene glycol

Hazard statements H302 Harmful if swallowed.

 ${
m H373~May}$  cause damage to organs through prolonged or repeated exposure.

**Precautionary statements** P101 If medical advice is needed, have product container or label at hand.

P102 Keep out of reach of children.

P260 Do not breathe vapours.

P270 Do no eat, drink or smoke when using this product.

P301+P312 IF SWALLOWED: Call a POISON CENTER / doctor if you feel unwell. P501 Dispose of contents / container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of

disposal.

#### 2.3 Other hazards

Physico-chemical hazards No particular hazards known.

Other hazards Further hazards were not determined with the current level of knowledge.



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

#### 3.1 Substances

not applicable

#### 3.2 Mixtures

#### The product is a mixture.

Range [%]	Substance
60 - < 100	Ethylene glycol
	CAS: 107-21-1, EINECS/ELINCS: 203-473-3, EU-INDEX: 603-027-00-1, Reg-No.: 01-2119456816-28-XXXX GHS/CLP: Acute Tox. 4: H302 - STOT RE 2: H373
1 - < 2.5	Potassium isononanoate
	CAS: 84501-71-3, EINECS/ELINCS: 282-991-1
	GHS/CLP: Skin Irrit. 2: H315 - Eye Irrit. 2: H319
0.1 - < 0.3	Methyl-1H-benzotriazole
	CAS: 29385-43-1, EINECS/ELINCS: 249-596-6, Reg-No.: 01-2119979081-35-XXXX
	GHS/CLP: Acute Tox. 4: H302 - Aquatic Chronic 2: H411 - Repr. 2: H361d

Comment on component parts

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** Take off contaminated clothing and wash before reuse.

**Inhalation** Ensure supply of fresh air.

In the event of symptoms seek medical treatment.

**Skin contact** In case of contact with skin wash off immediately 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.

Rinse out mouth and give plenty of water to drink.

Do not induce vomiting.

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

Tiredness Spasms Diarrhoea

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

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

Treat symptomatically.

Forward this sheet to your doctor.

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

#### 5.1 Extinguishing media

Suitable extinguishing media Foam, dry powder, water spray jet, carbon dioxide

Extinguishing media that must not

be used

Full water jet.

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

Risk of formation of toxic pyrolysis products.

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

Pick up with absorbent material (e.g. sand, sawdust, universal absorbent, diatomaceous

earth)

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

Use only in well-ventilated areas.

Avoid spilling or spraying in enclosed areas.

The product is combustible.

Take off contaminated clothing and wash before reuse.

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

Use barrier skin cream.

Wash hands before breaks and after work.

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

# 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.

Do not store together with food and animal food/diet.

Keep container tightly closed.

Keep container in a well-ventilated place.

#### 7.3 Specific end use(s)

See product use, SECTION 1.2



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# **SECTION 8: Exposure controls / personal protection**

#### 8.1 Control parameters

Ingredients with occupational exposure limits to be monitored (GB)

Substance

Ethylene glycol

CAS: 107-21-1, EINECS/ELINCS: 203-473-3, EU-INDEX: 603-027-00-1, Reg-No.: 01-2119456816-28-XXXX

Long-term exposure: 20 ppm, 52 mg/m³, Vapour, particulate: 10 mg/m³

Short-term exposure (15-minute): 40 ppm, 104 mg/m<sup>3</sup>

# Ingredients with occupational exposure limits to be monitored (EU)

Substance / EC LIMIT VALUES

Ethylene glycol

CAS: 107-21-1, EINECS/ELINCS: 203-473-3, EU-INDEX: 603-027-00-1, Reg-No.: 01-2119456816-28-XXXX

Eight hours: 20 ppm, 52 mg/m³, H

Short-term (15-minute): 40 ppm, 104 mg/m<sup>3</sup>

#### **DNEL**

	nce

Ethylene glycol, CAS: 107-21-1

Industrial, dermal, Long-term - systemic effects, 106 mg/m<sup>3</sup>

Industrial, inhalative, Long-term - local effects, 35 mg/m<sup>3</sup>

general population, dermal, Long-term - systemic effects, 53 mg/m³

general population, inhalative, Long-term - local effects, 7 mg/m3

Methyl-1H-benzotriazole, CAS: 29385-43-1

Industrial, dermal, Long-term - systemic effects, 300 µg/kg bw/day

Industrial, inhalative, Long-term - systemic effects, 21.2 mg/m<sup>3</sup>

general population, oral, Long-term - systemic effects, 10 µg/kg bw/day

general population, dermal, Long-term - systemic effects, 10 µg/kg bw/day

general population, inhalative, Long-term - systemic effects, 350 µg/m<sup>3</sup>

#### **PNEC**

#### Substance

Ethylene glycol, CAS: 107-21-1

freshwater, 10 mg/L

seawater, 1 mg/L

sediment (freshwater), 37 mg/kg

soil, 1.53 mg/kg

sewage treatment plants (STP), 199.5 mg/l (AF=10)

sediment (seawater), 3.7 mg/kg

Methyl-1H-benzotriazole, CAS: 29385-43-1

soil, 18.7 µg/kg soil dw

sediment (seawater), 292 µg/kg sediment dw

sediment (freshwater), 117 µg/kg sediment dw

sewage treatment plants (STP), 39.4 mg/L

seawater, 20 µg/L

freshwater, 8 µg/L



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#### 8.2 Exposure controls

Measurement methods for taking workplace measurements must meet the performance

requirements of DIN EN 482. For example, recommendations are given in the IFA's list of

hazardous substances.

**Eye protection** Safety glasses. (EN 166:2001)

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

information.

> 0.4 mm: Nitrile rubber, >480 min (EN 374-1/-2/-3).

**Skin protection** Light protective clothing.

Other Personal protective equipment should be selected specifically for the working place,

depending on concentration and quantity handled. The resistance of this equipment to

chemicals should be ascertained with the respective supplier.

Avoid contact with eyes and skin.

Do not inhale vapours.

**Respiratory protection** Respiratory protection mask in the event of high concentrations.

Short term: filter apparatus, combination filter A-P2. (DIN EN 14387)

Thermal hazards No information available.

Delimitation and monitoring of the

environmental exposition

Comply with applicable environmental regulations limiting discharge to air, water and soil.

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

#### 9.1 Information on basic physical and chemical properties

Physical stateliquidFormliquidColoryellow

**Odor** characteristic

Odour threshold No information available.

**pH-value** 7.8 - 8.5 (50%)

pH-value [1%]

Boiling point [°C]

Flash point [°C]

Flammability

No information available.

> 100 (DIN 51758)

not applicable

Lower explosion limitNo information available.Upper explosion limitNo information available.

Oxidising properties no

Particle characteristics

Vapour pressure/gas pressure [kPa] <0.01 (20°C)

**Density [g/cm³]** ca. 1.12 (DIN 51757) (20 °C / 68,0 °F)

Relative density not determined
Bulk density [kg/m³] not applicable
Solubility in water miscible

Solubility other solvents No information available. Partition coefficient [n-octanol/water] No information available. Kinematic viscosity No information available. Relative vapour density No information available. No information available. **Evaporation speed** Melting point [°C] No information available. Auto-ignition temperature [°C] > 400 (DIN 51757) Decomposition temperature [°C] No information available.

No information available.



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# 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).

# 10.3 Possibility of hazardous reactions

Reactions with acids, alkalies and oxidizing agents.

# 10.4 Conditions to avoid

Strong heating.

# 10.5 Incompatible materials

See SECTION 10.3. Oxidizing agent Strong acids.

# 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 oral toxicity

Product

ATE-mix, oral, 544.3 mg/kg bw

Substance

Ethylene glycol, CAS: 107-21-1

LD50, oral, Rat, 7712 mg/kg bw

ATE, oral, 500 mg/kg (Acute Tox. 4)

Methyl-1H-benzotriazole, CAS: 29385-43-1

LD50, oral, Rat, 720 mg/kg

NOAEL, oral, Rat, 150 mg/kg bw/day

#### Acute dermal toxicity

Product

dermal, Based on the available information, the classification criteria are not fulfilled.

Substance

Ethylene glycol, CAS: 107-21-1

LD50, dermal, mouse, > 3500 mg/kg bw

Methyl-1H-benzotriazole, CAS: 29385-43-1

LD50, dermal, Rabbit, 2000 mg/kg bw

# Acute inhalational toxicity

Produc

inhalative, Based on the available information, the classification criteria are not fulfilled.

Substance

Ethylene glycol, CAS: 107-21-1

LC50, inhalative, Rat, > 2.5 mg/L air, 6h

Serious eye damage/irritation Based on the available information, the classification criteria are not fulfilled.

Substance

Ethylene glycol, CAS: 107-21-1

Eye, Rabbit, In vivo study, non-irritating

**Skin corrosion/irritation**Based on the available information, the classification criteria are not fulfilled.

Substance

Ethylene glycol, CAS: 107-21-1

dermal, Rabbit, In vivo study, non-irritating

Respiratory or skin sensitisation Based on the available information, the classification criteria are not fulfilled.

Substance

Ethylene glycol, CAS: 107-21-1

dermal, Guinea pig, In vivo study, non-sensitizing



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Specific target organ toxicity —

single exposure

Based on the available information, the classification criteria are not fulfilled.

Specific target organ toxicity — repeated exposure

Toxicological data of complete product are not available.

May cause damage to organs through prolonged or repeated exposure.

Calculation method

Substance

Ethylene glycol, CAS: 107-21-1

NOAEL, dermal, Dog, 2200 mg/kg bw/day, adverse effect observed

NOEL, oral, Rat, 150 mg/kg bw/day, OECD 408, adverse effect observed

Mutagenicity

Based on the available information, the classification criteria are not fulfilled.

Substance

Ethylene glycol, CAS: 107-21-1

in vitro, OECD 471, no adverse effect observed

Reproduction toxicity

Based on the available information, the classification criteria are not fulfilled.

- Fertility

Substance

Ethylene glycol, CAS: 107-21-1

NOAEL, oral, Rat, > 1000 mg/kg bw/day, no adverse effect observed

- Development

Substance

Ethylene glycol, CAS: 107-21-1

NOAEL, oral, Rat, 500 mg/kg bw/day, no adverse effect observed

Carcinogenicity

Based on the available information, the classification criteria are not fulfilled.

Substance

Ethylene glycol, CAS: 107-21-1

NOAEL, oral, Rat, 1000 mg/kg bw/day, In vivo study, no adverse effect observed

**Aspiration hazard** 

Based on the available information, the classification criteria are not fulfilled.

General remarks

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.

11.2 Information on other hazards

11.2.1 Endocrine disrupting

properties

Contains no ingredients with endocrine-disrupting properties.

11.2.2 Other information

none



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# **SECTION 12: Ecological information**

# 12.1 Toxicity

Product			
Based on the available information, the classification criteria are not fulfilled.			
Substance			
Ethylene glycol, CAS: 107-21-1			
LC50, (28d), fish, 1.5 g/L			
LC50, (3d), fish, 72.86 g/L			
EC50, (4d), Invertebrates, 3.536 - 13 g/L			
EC50, (21d), Invertebrates, 33.911 g/L			
EC50, (48h), Invertebrates, 100 mg/L			
Methyl-1H-benzotriazole, CAS: 29385-43-1			
LC50, (96h), fish, 55 - 180 mg/L			
EC50, (72h), Algae, 29 - 75 mg/L			
EC50, (48h), Invertebrates, 8.58 - 15.8 mg/L			
NOEC, (21d), Invertebrates, 18.4 mg/L			

# 12.2 Persistence and degradability

Behaviour in environment compartments

Behaviour in sewage plant not determined

Biological degradability No information available.

# 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 Endocrine disrupting properties

Contains no ingredients with endocrine-disrupting properties.

#### 12.7 Other adverse effects

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



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# **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** 

Dispose of as hazardous waste.

Disposal in an incineration plant in accordance with the regulations of the local authorities.

Waste no. (recommended)

Contaminated packaging

Uncontaminated packaging may be taken for recycling.

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

Waste no. (recommended) 150110\* packaging containing residues of or contaminated by hazardous substances

150102 150104

160114\*

#### **SECTION 14: Transport information**

#### 14.1 UN number or ID number

Transport by land according to

ADR/RID

not applicable

Inland navigation (ADN) not applicable

Marine transport in accordance with

**IMDG** 

not applicable

Air transport in accordance with IATA not applicable

# 14.2 UN proper shipping name

Transport by land according to

ADR/RID

NO DANGEROUS GOODS

Inland navigation (ADN) NO DANGEROUS GOODS

**IMDG** 

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

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

#### 14.3 Transport hazard class(es)

Transport by land according to

not applicable

ADR/RID

Inland navigation (ADN) not applicable

Marine transport in accordance with

IMDG

not applicable

Air transport in accordance with IATA not applicable



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14.4 Packing group

Transport by land according to

ADR/RID

not applicable

Inland navigation (ADN) not applicable

Marine transport in accordance with

**IMDG** 

not applicable

Air transport in accordance with IATA not applicable

14.5 Environmental hazards

Transport by land according to

ADR/RID

no

Inland navigation (ADN) no

Marine transport in accordance with no

**IMDG** 

Air transport in accordance with IATA no

14.6 Special precautions for user

Relevant information under SECTION 6 to 8.

14.7 Maritime transport in bulk according to IMO instruments

not applicable

**SECTION 15: Regulatory information** 

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

**EEC-REGULATIONS** 2008/98/EC 2000/532/EC); 2010/75/EU; 2004/42/EC; (EC) 648/2004; (EC) 1907/2006

(REACH); (EU) 1272/2008; 75/324/EEC ((EC) 2016/2037); (EU) 2020/878; (EU) 2016/131;

(EU) 517/2014

Comment on component parts Substances of Very High Concern - SVHC: substances are not contained or are below 0.1%.

- Annex XIV (REACH) According to Annex XIV of Regulation (EC) 1907/2006 (REACH) the product does not contain

any substances ≥ 0.1% that are subject to authorisation.

- Annex XVII (REACH) According to Annex XVII of Regulation (EC) 1907/2006 (REACH) the product contains ≥ 0.1%

of substances with the following restrictions. 3, 75

According to Annex XVII of Regulation (EC) 1907/2006 (REACH) the product is subject to the

following restrictions.

3

TRANSPORT-REGULATIONS ADR (2023); IMDG-Code (2023, 41. Amdt.); IATA-DGR (2023)

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

REACH; GB CLP.

- Observe employment restrictions

for people

Observe employment restrictions for mothers-to-be and nursing mothers. Observe

employment restrictions for young people.

- VOC (2010/75/CE)

15.2 Chemical safety assessment

not applicable

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# **SECTION 16: Other information**

# 16.1 Hazard statements (SECTION 3)

H361d Suspected of damaging the unborn child. H411 Toxic to aquatic life with long lasting effects.

H319 Causes serious eye irritation.

H315 Causes skin irritation.

H373 May cause damage to organs through prolonged or repeated exposure.

H302 Harmful if swallowed.

#### 16.2 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

EL50 = Median effective loading

ELINCS = European List of Notified Chemical Substances

EmS = Emergency Schedules

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

IVIS = In vitro irritation score

LC50 = Lethal concentration, 50%

LD50 = Median lethal dose

LC0 = lethal concentration, 0%

LOAEL = lowest-observed-adverse-effect level

LL50 = Median lethal loading

LQ = Limited Quantities

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

### 16.3 Other information

Classification procedure Acute Tox. 4: H302 Harmful if swallowed. (Calculation method)

STOT RE 2: H373 May cause damage to organs through prolonged or repeated exposure.

(Calculation method)



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Modified position SECTION 3 been added: Methyl-1H-benzotriazole

SECTION 3 been added: Potassium isononanoate SECTION 3 deleted: potassium 2-ethylhexanoate

SECTION 3 deleted: 1H-Indene-1,3(2H)-dione, 2-(2-quinolinyl)-, sulfonated, sodium salts SECTION 2 deleted: P337+P313 If eye irritation persists: Get medical advice / attention. SECTION 2 deleted: P305+P351+P338 IF IN EYES: Rinse cautiously with water for several

minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

SECTION 2 deleted: P280 Wear eye protection / face protection.

SECTION 2 deleted: H319 Causes serious eye irritation.

SECTION 2 deleted: Eye Irrit. 2 SECTION 11 deleted: Irritant

SECTION 11 been added: Based on the available information, the classification criteria are

not fulfilled.

SECTION 11 deleted: Toxicological data of complete product are not available.