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

1.1 Product identifier

SWAG 10 92 4196 antifreeze Article number: 10 92 4196

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

For all uses not specified in SECTION 1.2.1

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)

Company +49 (0)202 26454-0

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture [REGULATION (EC) No 1272/2008]

Acute Tox. 4: H302 Harmful if swallowed.

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

Eye Irrit. 2: H319 Causes serious eye irritation.

2.2 Label elements

The product is classified and required to be labelled in accordance with EC-Directives

Hazard pictograms





Signal word WARNING

Contains: Ethylene glycol

Hazard statements H302 Harmful if swallowed.

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

H319 Causes serious eye irritation.

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.

P314 Get medical advice / attention 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.

P280 Wear eye protection / face protection.

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.



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2.3 Other hazards

Physico-chemical hazards No particular hazards known.

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

Other hazards none

SECTION 3: Composition / Information on ingredients

Product-type:

3.2 The product is a mixture.

Range [%]	Substance
30 - < 60	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 - < 3	potassium 2-ethylhexanoate
	CAS: 3164-85-0, EINECS/ELINCS: 221-625-7, Reg-No.: 01-2119980714-29-XXXX
	GHS/CLP: Repr. 2: H361d - Eye Dam. 1: H318 - Skin Irrit. 2: H315

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 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 Seek medical advice 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

No information available.

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

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.

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.

Cloths contaminated with product should not be kept in trouser pockets.

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.

Protect from heat/overheating.

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/m³

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/m³

DNEL

Substance

Ethylene glycol, CAS: 107-21-1

Industrial, dermal, Long-term - systemic effects: 106 mg/m³.

Industrial, inhalative, Long-term - local effects: 35 mg/m³.

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

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

potassium 2-ethylhexanoate, CAS: 3164-85-0

Industrial, dermal, Long-term - systemic effects: 5,95 mg/kg bw/d.

Industrial, inhalative, Long-term - systemic effects: 32 mg/m3.

general population, oral, Long-term - systemic effects: 2,5 mg/kg bw/d.

general population, dermal, Long-term - systemic effects: 2,98 mg/kg bw/d.

general population, inhalative, Long-term - systemic effects: 8 mg/m³.

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.

potassium 2-ethylhexanoate, CAS: 3164-85-0

soil, 1.06 mg/kg.

sediment (seawater), 637 µg/kg.

sediment (freshwater), 6.37 mg/kg.

sewage treatment plants (STP), 71.7 mg/L.

seawater, 36 µg/L

freshwater, 360 µg/L.



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8.2 Exposure controls

Additional advice on system design
Ensure adequate ventilation on workstation.

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

Form liquid
Color blue

Odor characteristic

Odour threshold No information available.

pH-value 7,5 - 9

pH-value [1%]

Boiling point [°C]

Flash point [°C]

Flammability (solid, gas) [°C]

No information available.

> 100 (DIN 51758)

not applicable

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

Oxidising properties no

Vapour pressure/gas pressure [kPa] <0,01 (20°C)

Density [g/ml] ca. 1,07 (DIN 51757) (20 °C / 68,0 °F)

Bulk density [kg/m³] not applicable

Solubility in water miscible

Partition coefficient [n-octanol/water] No information available.

Viscosity 20 - 30 mm²/s (20°C)

Relative vapour density determined No information available.

n air

Evaporation speed No information available.

Melting point [°C] No information available.

Decomposition temperature [°C] No information available.

9.2 Other information

Autoignition temperature [°C]

No information available.

> 400 (DIN 51758)



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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

Oxidizing agent Acids Strong basic compounds

10.6 Hazardous decomposition products

No hazardous decomposition products known.

Product



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SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Troduct		
ATE-mix, oral, 1606,5 mg/kg bw.		
Substance		
Ethylene glycol, CAS: 107-21-1		
LD50, dermal, mouse: > 3500 mg/kg.		
LD50, oral, Rat: 7712 mg/kg.		
LC50, inhalative, Rat: > 2,5 mg/l 6h.		
LDLo, oral, Human: ca. 1600 mg/kg.		
potassium 2-ethylhexanoate, CAS: 3164-85-0		
LD50, dermal, Rabbit: 2000 mg/kg bw.		
LD50, oral, Rat: 2043 mg/kg bw.		

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

May cause damage to organs through prolonged or repeated exposure.

Serious eye damage/irritation Toxicological data of complete product are not available.

Irritant

LC50, inhalative, Rat: 110 mg/m3 (8 h).

Calculation method

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

Specific target organ toxicity -

single exposure

Specific target organ toxicity —

repeated exposure

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

Calculation method

Reproduction toxicity Based on the available information, the classification criteria are not fulfilled. Carcinogenicity Based on the available information, the classification criteria are not fulfilled. **Aspiration hazard** Based on the available information, the classification criteria are not fulfilled.

General remarks

Toxicological data of complete product are not available.

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.

SECTION 12: Ecological information

12.1 Toxicity

Substance	
Ethylene glycol, CAS: 107-21-1	
LC50, (96h), Pimephales promelas: 72 860 mg/l.	
EC50, (96h), Selenastrum capricornutum: 6500 - 13000 mg/l.	
EC50, (48h), Daphnia magna: > 100 mg/l OECD 202.	
potassium 2-ethylhexanoate, CAS: 3164-85-0	
LC50, (96h), fish: 100 mg/L.	
EC50, (6d), Algae: 49.3 mg/L.	
EC50, (48h), Crustacea: 85.4 mg/L.	



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12.2 Persistence and degradability

Behaviour in environment

compartments

not determined

Behaviour in sewage plant

not determined

Biological degradability

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

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 c 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)

160114*

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* 150102 150104

SECTION 14: Transport information

14.1 UN number

Transport by land according to

ADR/RID

not applicable

Inland navigation (ADN) not applicable

Marine transport in accordance with

not applicable

IMDG

Air transport in accordance with IATA not applicable



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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

ADR/RID

not applicable

Inland navigation (ADN) not applicable

Marine transport in accordance with not applicable

IMDG

Air transport in accordance with IATA not applicable

14.4 Packing group

Transport by land according to

ADR/RID

not applicable

Inland navigation (ADN) not applicable

Marine transport in accordance with not applicable

IMDG

Air transport in accordance with IATA not applicable

14.5 Environmental hazards

Transport by land according to

no

ADR/RID

Inland navigation (ADN)

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 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

EEC-REGULATIONS 1991/689 (2001/118); 2010/75; 2004/42; 648/2004; 1907/2006 (REACH); 1272/2008;

75/324/EEC (2016/2037/EC); (EU) 2015/830; (EU) 2016/131; (EU) 517/2014

TRANSPORT-REGULATIONS ADR (2019); IMDG-Code (2019, 39. Amdt.); IATA-DGR (2019)

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

- 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) 0%

15.2 Chemical safety assessment

not applicable

SECTION 16: Other information

16.1 Hazard statements (SECTION 03)

H315 Causes skin irritation.

H318 Causes serious eye damage.

H361d Suspected of damaging the unborn child.

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

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



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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)

Eye Irrit. 2: H319 Causes serious eye irritation. (Calculation method)

Modified position none