

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

### 1.1 Product identifier

**antifreeze G 13**  
**Article number: 30938202, 30938201, 30938200**  
**UFI: GNSD-K3CJ-Y00M-P7EC**

### 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](http://www.swag.de)  
E-mail [info@swag.de](mailto:info@swag.de)

#### Address enquiries to

**Technical information** [info@swag.de](mailto:info@swag.de)

**Safety Data Sheet** [info@swag.de](mailto: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]

STOT RE 2: H373 May cause damage to organs through prolonged or repeated exposure.  
Eye Irrit. 2: H319 Causes serious eye irritation.  
Acute Tox. 4: H302 Harmful if swallowed.

### 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** H373 May cause damage to organs through prolonged or repeated exposure.  
H319 Causes serious eye irritation.  
H302 Harmful if swallowed.

#### 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.  
P280 Wear protective gloves / protective clothing / eye protection / face protection.  
P301+P310 IF SWALLOWED: Immediately call a POISON CENTER / doctor.  
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.  
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.  
P270 Do not eat, drink or smoke when using this product.  
P314 Get medical advice / attention if you feel unwell.

### 2.3 Other hazards

<b>Human health dangers</b>	If swallowed or in the event of vomiting, risk of product entering the lungs. Frequent persistent contact with the skin can cause skin irritation.
<b>Environmental hazards</b>	Does not contain any PBT or vPvB substances. Contains no ingredients with endocrine-disrupting properties.
<b>Other hazards</b>	Further hazards were not determined with the current level of knowledge.

## SECTION 3: Composition / Information on ingredients

### 3.1 Substances

not applicable

### 3.2 Mixtures

The product is a mixture.

Range [%]	Substance
30 - < 80	Ethylene glycol CAS: 107-21-1, EINECS/ELINCS: 203-473-3, EU-INDEX: 603-027-00-1 GHS/CLP: Acute Tox. 4: H302 - STOT RE 2: H373
> 10	Glycerol CAS: 56-81-5, EINECS/ELINCS: 200-289-5
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
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** Substances of Very High Concern - SVHC: substances are not contained or are below 0.1%.  
For full text of H-statements: see SECTION 16.

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

<b>General information</b>	Take off contaminated clothing and wash before reuse.
<b>Inhalation</b>	Ensure supply of fresh air. In the event of symptoms seek medical treatment.
<b>Skin contact</b>	When in contact with the skin, clean with soap and water. Consult a doctor if skin irritation persists.
<b>Eye contact</b>	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.
<b>Ingestion</b>	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 your 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)

### 5.3 Advice for firefighters

Use self-contained breathing apparatus.

Fire residues and contaminated firefighting water must be disposed of in accordance with 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 with 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.

The product is combustible.

Remove soiled or soaked clothing immediately.

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.

Take off contaminated clothing and wash before reuse.

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

Keep only in original container.

Do not store together with oxidizing agents.

Keep container in a well-ventilated place.

Keep container tightly closed.

### 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)

Substance
Ethylene glycol
CAS: 107-21-1, EINECS/ELINCS: 203-473-3, EU-INDEX: 603-027-00-1
Long-term exposure: 20 ppm, 52 mg/m <sup>3</sup> , Vapour, particulate: 10 mg/m <sup>3</sup>
Short-term exposure (15-minute): 40 ppm, 104 mg/m <sup>3</sup>
Glycerol
CAS: 56-81-5, EINECS/ELINCS: 200-289-5
Long-term exposure: 10 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
Eight hours: 20 ppm, 52 mg/m <sup>3</sup> , H
Short-term (15-minute): 40 ppm, 104 mg/m <sup>3</sup>

#### DNEL

Substance
Glycerol, CAS: 56-81-5
Industrial, inhalative, Long-term - local effects, 56 mg/m <sup>3</sup>
general population, oral, Long-term - systemic effects, 229 mg/kg bw/day
general population, inhalative, Long-term - local effects, 33 mg/m <sup>3</sup>
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/m <sup>3</sup>
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/m <sup>3</sup>
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
Glycerol, CAS: 56-81-5
sediment (seawater), 330 µg/kg sediment dw
sediment (freshwater), 3.3 mg/kg sediment dw
sewage treatment plants (STP), 1 g/L
seawater, 88.5 µg/L
freshwater, 885 µg/L
soil, 141 µg/kg soil dw

potassium 2-ethylhexanoate, CAS: 3164-85-0
seawater, 36 µg/L
sewage treatment plants (STP), 71.7 mg/L
sediment (freshwater), 6.37 mg/kg
freshwater, 360 µg/L
sediment (seawater), 637 µg/kg
soil, 1.06 mg/kg
Methyl-1H-benzotriazole, CAS: 29385-43-1
sediment (freshwater), 117 µg/kg sediment dw
freshwater, 8 µg/L
sewage treatment plants (STP), 39.4 mg/L
sediment (seawater), 292 µg/kg sediment dw
soil, 18.7 µg/kg soil dw
seawater, 20 µg/L

## 8.2 Exposure controls

<b>Additional advice on system design</b>	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.
<b>Eye protection</b>	Safety glasses. (EN 166:2001)
<b>Hand protection</b>	Nitrile rubber, >480 min (EN 374-1/-2/-3). The details concerned are recommendations. Please contact the glove supplier for further information.
<b>Skin protection</b>	Light protective clothing.
<b>Other</b>	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.
<b>Respiratory protection</b>	Respiratory protection mask in the event of high concentrations. Short term: filter apparatus, combination filter A-P2. (DIN EN 14387)
<b>Thermal hazards</b>	none
<b>Delimitation and monitoring of the environmental exposition</b>	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 state	liquid
Form	liquid
Color	violet
Odor	mild
Odour threshold	No information available.
pH-value	8.35
pH-value [1%]	No information available.
Boiling point [°C]	> 170 (352°F)
Flash point [°C]	122
Flammability (solid, gas) [°C]	No information available.
Lower explosion limit	No information available.
Upper explosion limit	No information available.
Oxidising properties	no
Vapour pressure/gas pressure [kPa]	No information available.
Density [g/cm <sup>3</sup> ]	1.13 (20 °C / 68,0 °F)
Relative density	not determined
Bulk density [kg/m <sup>3</sup> ]	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	> 1
Evaporation speed	No information available.
Melting point [°C]	-18
Auto-ignition temperature [°C]	not applicable
Decomposition temperature [°C]	No information available.
Particle characteristics	No information available.

### 9.2 Other information

none

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

No dangerous reactions known if used as directed.

### 10.2 Chemical stability

The product is stable under standard conditions.

### 10.3 Possibility of hazardous reactions

Reactions with acids, alkalis and 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 hazard classes as defined in Regulation (EC) No 1272/2008

#### Acute oral toxicity

Product
ATE-mix, oral, mouse, 2016 mg/kg bw
Substance
Glycerol, CAS: 56-81-5
LD50, oral, Rat, 27 mg/kg bw
Ethylene glycol, CAS: 107-21-1
LD50, oral, Rat, 4700 mg/kg
LDLo, oral, Human, ca. 1600 mg/kg Lit.
potassium 2-ethylhexanoate, CAS: 3164-85-0
LD50, oral, Rat, 2043 mg/kg bw
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
ATE-mix, dermal, mouse, > 3500 mg/kg bw
Substance
Glycerol, CAS: 56-81-5
LD50, dermal, Guinea pig, 45 mL/kg bw
Ethylene glycol, CAS: 107-21-1
LD50, dermal, mouse, > 3500 mg/kg Lit.
potassium 2-ethylhexanoate, CAS: 3164-85-0
LD50, dermal, Rabbit, 2000 mg/kg bw
Methyl-1H-benzotriazole, CAS: 29385-43-1
LD50, dermal, Rabbit, 2000 mg/kg bw

#### Acute inhalational toxicity

Product
inhalative, Based on the available information, the classification criteria are not fulfilled.
Substance
Ethylene glycol, CAS: 107-21-1
LC50, inhalative, Rat, > 200 mg/m <sup>3</sup> 4h
potassium 2-ethylhexanoate, CAS: 3164-85-0
LC50, inhalative, Rat, 110 mg/m <sup>3</sup> (8 h)

#### Serious eye damage/irritation

Toxicological data of complete product are not available.  
Irritant  
Calculation method

Substance
potassium 2-ethylhexanoate, CAS: 3164-85-0
Eye, in vitro / ex vivo, OECD 437, corrosive



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

Substance
potassium 2-ethylhexanoate, CAS: 3164-85-0
Rabbit, in vivo, OECD 404, irritant

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

**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
Glycerol, CAS: 56-81-5
NOAEL, inhalative, Rat, 167 mg/m <sup>3</sup> air
NOEL, oral, Rat, 50000 ppm
Ethylene glycol, CAS: 107-21-1
NOAEL, dermal, Dog, 2200 mg/kg bw/day, adverse effect observed
NOAEL, oral, Rat, 150 mg/kg bw/day, adverse effect observed

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

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

**- Fertility**

Substance
potassium 2-ethylhexanoate, CAS: 3164-85-0
NOAEL, Rat, 300 mg/kg bw/day (P0)

**- Development**

Substance
potassium 2-ethylhexanoate, CAS: 3164-85-0
NOAEL, Rat, 300 mg/kg bw/day (P0)

**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.  
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

**Endocrine disrupting properties** Contains no ingredients with endocrine-disrupting properties.

**Other information** none

## SECTION 12: Ecological information

### 12.1 Toxicity

Product
Based on the available information, the classification criteria are not fulfilled.
Substance
Glycerol, CAS: 56-81-5
LC50, (4d), fish, 54 g/L
EC50, (24h), Invertebrates, 10 g/L
Ethylene glycol, CAS: 107-21-1
LC50, (96h), fish, 41000 mg/l
EC50, (48h), Daphnia magna, 34250 mg/l
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
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 not determined

### 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

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

Disposal in an incineration plant in accordance with the regulations of the local authorities.  
Dispose of as hazardous waste.

Waste no. (recommended) 160114\*

#### Contaminated packaging

Packaging that cannot be cleaned should be disposed of as for product.  
Uncontaminated packaging may be taken for recycling.

Waste no. (recommended) 150102  
150104  
150110\* packaging containing residues of or contaminated by hazardous substances

## 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

Marine transport in accordance with IMDG 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 IMDG not applicable

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 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 IMDG no

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

**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)** 79,99 %

#### 15.2 Chemical safety assessment

For this product a chemical safety assessment has not been carried out.

### SECTION 16: Other information

#### 16.1 Hazard statements (SECTION 3)

H411 Toxic to aquatic life with long lasting effects.  
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  
 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

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

### Modified position

SECTION 11 been added: Contains no ingredients with endocrine-disrupting properties.  
 SECTION 12 been added: Contains no ingredients with endocrine-disrupting properties.