

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

1.1 Product identifier

antifreeze G12evo

Article number: 33 10 8925, 73 10 8925, 33 10 8926, 33 10 8927

UFI: ATTC-CHK4-C00T-9RFW

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)

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.
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.
P264 Wash hands thoroughly after handling.
P270 Do not 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.
P405 Store locked up.
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.
Human health dangers	Frequent persistent contact with the skin can cause skin irritation.
Other hazards	none

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
2.5 - < 5	Disodium sebacate
	CAS: 17265-14-4, EINECS/ELINCS: 241-300-3, Reg-No.: 01-2120762063-61-XXXX
	GHS/CLP: 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 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 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.

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



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/m ³ , Vapour, particulate: 10 mg/m ³
Short-term exposure (15-minute): 40 ppm, 104 mg/m ³

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

DNEL

Substance
Ethylene glycol, CAS: 107-21-1
Industrial, dermal, Long-term - systemic effects, 106 mg/m ³
Industrial, inhalative, Long-term - local effects, 35 mg/m ³
general population, dermal, Long-term - systemic effects, 53 mg/m ³
general population, inhalative, Long-term - local effects, 7 mg/m ³
Disodium sebacate, CAS: 17265-14-4
Industrial, dermal, Long-term - systemic effects, 10 mg/kg bw/day
Industrial, inhalative, Long-term - systemic effects, 35.26 mg/m ³
general population, oral, Long-term - systemic effects, 5 mg/kg bw/day
general population, dermal, Long-term - systemic effects, 5 mg/kg bw/day
general population, inhalative, Long-term - systemic effects, 8.7 mg/m ³
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 ³
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 ³

PNEC

Substance
Ethylene glycol, CAS: 107-21-1
sewage treatment plants (STP), 199.5 mg/l (AF=10)
soil, 1.53 mg/kg
sediment (freshwater), 37 mg/kg
sediment (seawater), 3.7 mg/kg
seawater, 1 mg/L
freshwater, 10 mg/L
Disodium sebacate, CAS: 17265-14-4
sediment (seawater), 0.055 mg/kg sediment dw



sediment (freshwater), 0.548 mg/kg sediment dw
sewage treatment plants (STP), 10 mg/L
seawater, 0.002 mg/L
freshwater, 0.018 mg/L
soil, 0.099 mg/kg soil dw
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

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

Physical state	liquid
Form	liquid
Color	green-yellow
Odor	characteristic
Odour threshold	No information available.
pH-value	~ 8.5 (ASTM D1287)
pH-value [1%]	No information available.
Boiling point [°C]	> 170 (ASTM D 1120)
Flash point [°C]	~ 125 (ASTM D-92)
Flammability (solid, gas) [°C]	not applicable
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 ³]	ca. 1.124 (ASTM D1122) (20 °C / 68,0 °F)
Relative density	not determined
Bulk density [kg/m ³]	not applicable
Solubility in water	miscible
Solubility other solvents	No information available.
Partition coefficient [n-octanol/water]	No information available.
Kinematic viscosity	~ 25.6 mm ² /s (ASTM D-7042) (20°C)
Relative vapour density	No information available.
Evaporation speed	No information available.
Melting point [°C]	No information available.
Auto-ignition temperature	No information available.
Decomposition temperature [°C]	No information available.
Particle characteristics	No information available.

9.2 Other information

Pour point: ~ -37°C (ASTM D1177) [1:1 H₂O]

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, alkalis 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.

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, 523.8 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)
Disodium sebacate, CAS: 17265-14-4
LD50, dermal, Rabbit, >5000 mg/kg
LD50, oral, Rat, >5000 mg/kg
Methyl-1H-benzotriazole, CAS: 29385-43-1
LD50, oral, Rat, 720 mg/kg
NOAEL, oral, Rat, 150 mg/kg bw/day

Acute dermal toxicity

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

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
Disodium sebacate, CAS: 17265-14-4
irritant

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
Disodium sebacate, CAS: 17265-14-4
no adverse effect observed

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



Disodium sebacate, CAS: 17265-14-4

dermal, The effects observed are not sufficient for classification.

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
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NOEL, oral, Rat, 150 mg/kg bw/day, OECD 408, adverse effect observed
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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
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Disodium sebacate, CAS: 17265-14-4

in vivo, negativ

in vitro, negativ

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

Substance

Ethylene glycol, CAS: 107-21-1

NOAEL, oral, Rat, 500 mg/kg bw/day, no adverse effect observed, Effects on developmental toxicity,
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NOAEL, oral, Rat, > 1000 mg/kg bw/day, no adverse effect observed, Effects on fertility,
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Disodium sebacate, CAS: 17265-14-4

NOAEL, oral, Rat, > 500 mg/kg, 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
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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

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
Disodium sebacate, CAS: 17265-14-4
LC50, (96h), Danio rerio, > 100 mg/L (OECD 203)
EC50, (48h), Daphnia magna, > 100 mg/L (OECD 202)
EL50, (72h), Skeletonema costatum, 38.7 mg/L (ISO 10253)
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.

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)

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* packaging containing residues of or contaminated by hazardous substances
150102
150104

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 (2021); IMDG-Code (2021, 40. Amdt.); IATA-DGR (2022)

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) 0%

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)**

H361d Suspected of damaging the unborn child.
H411 Toxic to aquatic life with long lasting effects.
H319 Causes serious eye 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)

Modified position

none