

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878 Issue date: 27/10/2023 Revision date: 20/12/2023 Supersedes version of: 27/10/2023 Version: 1.3

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

1.1. Product identifier

Product form	: Mixture
Product name	: CHAMPION ANTIFREEZE G11
UFI	: 2CQD-879J-CN4E-Q28S
Product code	: 50050
Type of product	: CHAMPION
Product group	: Blend

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

1.2.1. Relevant identified uses

Main use category Industrial/Professional use spec Industrial use, Professional use, Consumer use
 Non-dispersive use Used in closed systems
 Liquid for car cooling circuit

1.2.2. Uses advised against

Function or use category

No additional information available

1.3. Details of the supplier of the safety data sheet

CHAMPION CHEMICALS N.V. Georges Gilliotstraat, 52 2620 Hemiksem, Antwerpen België T 0032 (0)3 870 00 00, F 0032 (0)3 870 00 99 msds@wolfoil.com, https://www.championlubes.com

1.4. Emergency telephone number

Emergency number

: 0032 (0)3 870 00 00

Country/Area	Organisation/Company	Address	Emergency number	Comment
Ireland	National Poisons Information Centre Beaumont Hospital	PO Box 1297 Beaumont Road 9	+353 1 809 2566 (Healthcare professionals- 24/7) +353 1 809 2166 (public, 8am - 10pm, 7/7)	
Israel	Israel Poison Information Center Rambam Health Care Campus	6 Ha'Aliya Street 31096	+972 4 854 1900	
Malta	Medicines & Poisons Info Office	Mater Dei Hospital Msida MSD 2090	+356 2545 6508	
Sweden	Giftinformationscentralen	Box 60 500 171 76 Stockholm	112 – begär Giftinformation +46 10 456 6700 (Från utlandet)	

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

Acute toxicity (oral), Category 4

H302

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

Specific target organ toxicity – Repeated exposure, Category 2 H373 Full text of H- and EUH-statements: see section 16

Adverse physicochemical, human health and environmental effects

No additional information available

2.2. Label elements Labelling according to Regulation (EC) No. 1272/2008 [CLP] Hazard pictograms (CLP) GHS07 GHS08 Signal word (CLP) : Warning Contains ethanediol; ethylene glycol : Hazard statements (CLP) H302 - Harmful if swallowed. H373 - May cause damage to organs (kidneys) through prolonged or repeated exposure (on ingestion). Precautionary statements (CLP) P101 - If medical advice is needed, have product container or label at hand. P102 - Keep out of reach of children. P260 - Do not breathe spray, vapours. P270 - Do not eat, drink or smoke when using this product. P301+P312 - IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell. P501 - Dispose of contents/container in accordance with local/regional/national/international regulations.

2.3. Other hazards

Contains no PBT/vPvB substances ≥ 0.1% assessed in accordance with REACH Annex XIII

The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 %

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
ethanediol	CAS-No.: 107-21-1 EC-No.: 203-473-3 EC Index-No.: 603-027-00-1 REACH-no: 01-2119456816- 28	80 – 95	Acute Tox. 4 (Oral), H302 (ATE=500 mg/kg bodyweight) STOT RE 2, H373
disodium sebacate	CAS-No.: 17265-14-4 EC-No.: 241-300-3	< 2	Eye Irrit. 2, H319

Full text of H- and EUH-statements: see section 16

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

SECTION 4: First aid measures	
4.1. Description of first aid measures	
First-aid measures general	: In all cases of doubt, or when symptoms persist, seek medical attention.
First-aid measures after inhalation	: Adverse effects not expected from this product. Allow affected person to breathe fresh air. Place the victim in semi-seated position. Seek medical advice.
First-aid measures after skin contact	: Remove contaminated clothing. Wash skin with mild soap and water. If skin irritation or rash occurs: Get medical advice/attention.
First-aid measures after eye contact	: In case of eye contact, immediately rinse with clean water for 10-15 minutes. Contact lenses should be removed. Seek medical attention if ill effect or irritation develops.
First-aid measures after ingestion	: Do not induce vomiting. Rinse mouth. Never give anything by mouth to an unconscious person. Get immediate medical advice/attention.
4.2. Most important symptoms and e	ffects, both acute and delayed
Symptoms/effects after inhalation	: Not expected to present a significant inhalation hazard under anticipated conditions of normal use.
Symptoms/effects after skin contact	: Not expected to present a significant skin hazard under anticipated conditions of normal use.
Symptoms/effects after eye contact	: Not expected to present a significant eye contact hazard under anticipated conditions of normal use.
Symptoms/effects after ingestion	: Harmful if swallowed.
4.3. Indication of any immediate med	ical attention and special treatment needed

No additional information available

SECTION 5: Firefighting measures			
5.1. Extinguishing media			
Suitable extinguishing media Unsuitable extinguishing media	Foam. Dry chemical product.Do not use a heavy water stream.		
5.2. Special hazards arising from the substa	ance or mixture		
Fire hazard Hazardous decomposition products in case of fire	 Not flammable. Heating will cause a rise in pressure with a risk of bursting. Upon heating, toxic fumes are formed. 		
5.3. Advice for firefighters			
Precautionary measures fire Firefighting instructions Protection during firefighting	 Exercise caution when fighting any chemical fire. Use water spray or fog for cooling exposed containers. Do not enter fire area without proper protective equipment, including respiratory protection. 		

SECTION 6: Accidental release measures		
6.1. Personal precautions, protective equipment and emergency procedures		
6.1.1. For non-emergency personnel Protective equipment	: Wear suitable protective clothing and gloves.	
6.1.2. For emergency responders Protective equipment	: Wear suitable protective clothing and gloves.	
6.2. Environmental precautions		
Prevent entry to sewers and public waters. No	ify authorities if product enters sewers or public waters.	

6.3. Methods and material f	or containment and cleaning up	

For containment

: Impound and recover large spill by mixing it with inert granular solids.

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

Methods for cleaning up	: Detergent. Small quantities of liquid spill: take up in non-combustible absorbent material and
Other information	shovel into container for disposal. : Spill area may be slippery. Use suitable disposal containers.
6.4 Reference to other sections	

No additional information available

SECTION 7: Handling and storage	
7.1. Precautions for safe handling	
Precautions for safe handling Hygiene measures	 Avoid all unnecessary exposure. Both local exhaust and general room ventilation are usually required. Remove ignition sources. No open flames. No smoking. Take precautionary measures against static discharges. Wash hands and other exposed areas with mild soap and water before eating, drinking or
7.2. Conditions for safe storage, includ	smoking and when leaving work.
Storage temperature	: 40 °C
Heat and ignition sources	: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
Information on mixed storage	: Food.
Storage area	: Store in dry, cool, well-ventilated area.
Special rules on packaging	: Packaging destined for the general public must be fitted with child-proof closures and a tactile danger indication.
Germany	
Storage class (LGK, TRGS 510)	: LGK 10-13 - Other combustible and non-combustible substances
Switzerland	
Storage class (LK)	: LK 6.1 - Toxic materials
7.3. Specific end use(s)	

Anti-Freeze and De-icing products.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1 National occupational exposure and biological limit values

CHAMPION ANTIFREEZE G11		
EU - Indicative Occupational Exposure Limit (IOEL)		
IOEL STEL	104 mg/m³ @ 15 min.	
	40 ppm @ 15 min.	
ethanediol (107-21-1)		
EU - Indicative Occupational Exposure Limit (IOEL)		
IOEL TWA	52 mg/m³	
	20 ppm	
IOEL STEL	104 mg/m³	
	40 ppm	
Ireland - Occupational Exposure Limits		
OEL TWA	52 mg/m³	

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

ethanediol (107-21-1)	
	20 ppm
OEL STEL	40 mg/m ³
	104 ppm
Sweden - Occupational Exposure Limits	
NGV (OEL TWA)	25 mg/m³
	10 ppm
KTV (OEL STEL)	25 mg/m³
	10 ppm

8.1.2. Recommended monitoring procedures

No additional information available

8.1.3. Air contaminants formed

No additional information available

8.1.4. DNEL and PNEC

No additional information available

8.1.5. Control banding

No additional information available

8.2. Exposure controls

8.2.1. Appropriate engineering controls

No additional information available

8.2.2. Personal protection equipment

Personal protective equipment: Safety glasses. Gloves.

Personal protective equipment symbol(s):



8.2.2.1. Eye and face protection

Eye protection:

Safety glasses. Standard EN 166 - Personal eye-protection.

8.2.2.2. Skin protection

Skin and body protection:

No special clothing/skin protection equipment is recommended under normal conditions of use

Hand protection:

Permeation time: minimum >480min long term exposure; material / thickness [mm]: >0,35 mm. Butyl rubber (IIR) /. Polyvinylchloride (PVC) /

8.2.2.3. Respiratory protection

Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment

8.2.2.4. Thermal hazards

No additional information available

8.2.3. Environmental exposure controls

No additional information available

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

SECTION 9: Physical and chemical properties		
9.1. Information on basic physical and chemical properties		
Physical state	: Liquid	
Colour	: Blue.	
Appearance	: Liquid.	
Odour	: mild. slight.	
Odour threshold	: Not available	
Melting point	: Not available	
Freezing point	: -36 °C (ASTM D1177)	
Boiling point	: Not available	
Flammability	: Not available	
Lower explosion limit	: Not available	
Upper explosion limit	: Not available	
Flash point	: > 150 °C	
Auto-ignition temperature	: Not available	
Decomposition temperature	: Not available	
рН	: 7.5 – 9 50% AQ solution	
pH solution	: ≥0	
Viscosity, kinematic	: Not available	
Solubility	: In water, material soluble.	
Partition coefficient n-octanol/water (Log Kow)	: Not available	
Vapour pressure	: 0.06 mm Hg @20°C	
Vapour pressure at 50°C	: Not available	
Density	: 1.1186 g/cm ³ @20°C (ASTM D4052)	
Relative density	: Not available	
Relative vapour density at 20°C	: Not available	
Particle characteristics	: Not applicable	

9.2. Other information

9.2.1. Information with regard to physical hazard classes

No additional information available

9.2.2. Other safety characteristics

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

None under normal conditions.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

None under normal conditions.

10.4. Conditions to avoid

No additional information available

10.5. Incompatible materials

No additional information available

10.6. Hazardous decomposition products

None under normal conditions.

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

SECTION 11: Toxicological information			
11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008			
Acute toxicity (oral) Acute toxicity (dermal) Acute toxicity (inhalation)	 Harmful if swallowed. Not classified Not classified 		
CHAMPION ANTIFREEZE G11			
ATE CLP (oral)	526.316 mg/kg bodyweight		
ethanediol (107-21-1)			
LD50 oral rat	500 mg/kg		
LD50 dermal rat	10000 mg/kg		
LD50 dermal rabbit	> 5000 mg/kg		
LC50 Inhalation - Rat	> 2.5 mg/l/4h @6h		
disodium sebacate (17265-14-4)			
LD50 oral rat	> 5000 mg/kg (OECD TG 401)		
LD50 dermal rat	> 2000 mg/kg (OECD TG 402)		
Skin corrosion/irritation	 Not classified (Based on available data, the classification criteria are not met) pH: 7.5 – 9 50% AQ solution 		
Serious eye damage/irritation	 Not classified (Based on available data, the classification criteria are not met) pH: 7.5 – 9 50% AQ solution 		
Respiratory or skin sensitisation	: Not classified (Based on available data, the classification criteria are not met)		
Germ cell mutagenicity	: Not classified (Based on available data, the classification criteria are not met)		
Carcinogenicity	: Not classified (Based on available data, the classification criteria are not met)		
ethanediol (107-21-1)			
NOAEL (chronic, oral, animal/male, 2 years)	1000 mg/kg bodyweight		
NOAEL (chronic, oral, animal/female, 2 years)	1500 mg/kg bodyweight		
Reproductive toxicity	: Not classified (Based on available data, the classification criteria are not met)		
STOT-single exposure STOT-repeated exposure	 Not classified (Based on available data, the classification criteria are not met) May cause damage to organs (kidneys) through prolonged or repeated exposure (on ingestion). 		
ethanediol (107-21-1)			
NOAEL (oral, rat, 90 days)	220200 mg/kg bodyweight/day OECD 407		
NOAEL (dermal, rat/rabbit, 90 days)	2220 mg/kg bodyweight/day OECD 410		
STOT-repeated exposure	May cause damage to organs through prolonged or repeated exposure.		
Aspiration hazard	: Not classified (Based on available data, the classification criteria are not met)		
11.2. Information on other hazards			
11.2.1. Endocrine disrupting properties			
Adverse health effects caused by endocrine disrupting properties	: The mixture contains substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605		
11.2.2. Other information			
Potential adverse human health effects and symptoms	: Ingestion may cause nausea, vomiting and diarrhea		

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

SECTION 12: Ecological information			
12.1. Toxicity			
Hazardous to the aquatic environment, short-term : Not classified (acute) Hazardous to the aquatic environment, long-term : Not classified (chronic)			
ethanediol (107-21-1)			
LC50 - Fish [1]	41000 mg/l @96h - Oncorhynchus mykiss		
LC50 - Fish [2]	> 14 – < 18 ml/l @96h - Oncorhynchus mykiss (static)		
EC50 - Crustacea [1]	46300 mg/l @48h - Daphnia magna		
EC50 - Crustacea [2]	> 100 mg/l		
EC50 96h - Algae [1]	> 6500 – < 13000 mg/l		
NOEC chronic fish	15380 mg/l @ 7d - Pimephales promelas		
NOEC chronic crustacea	8590 mg/l		
disodium sebacate (17265-14-4)			
LC50 - Fish [1]	> 100 mg/l Danio rerio, OECD TG 203		
EC50 - Crustacea [1]	> 100 mg/l Daphnia magna, OECD TG 202		
EC50 72h - Algae [1]	38.7 mg/l Skeletonema costatum, ISO 10253		
NOEC chronic algae	3 mg/l Skeletonema costatum, ISO 10253		

12.2. Persistence and degradability

CHAMPION ANTIFREEZE G11		
Persistence and degradability	Prevent entry to sewers and public waters.	
ethanediol (107-21-1)		
Persistence and degradability	Rapidly degradable	
Biochemical oxygen demand (BOD)	0.47 g O ₂ /g substance	
Chemical oxygen demand (COD)	1.29 g O ₂ /g substance	
Biodegradation	90 %	
disodium sebacate (17265-14-4)		
Persistence and degradability	Not rapidly degradable	
Biodegradation	89 % 28d, OECD TG 306	
12.3. Bioaccumulative potential		
ethanediol (107-21-1)		
	10	

Bioconcentration factor (BCF REACH)	10
Partition coefficient n-octanol/water (Log Pow)	-1.36
disodium sebacate (17265-14-4)	
Partition coefficient n-octanol/water (Log Pow)	- 4.9 (@20 °C; 7,8 pH; OECD TG 105)

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

12.4. Mobility in soil				
ethanediol (107-21-1)				
Surface tension	49890 N/m @25°C			
disodium sebacate (17265-14-4)				
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	2.429 25 °C, QSAR			
12.5. Results of PBT and vPvB assessment				
No additional information available				
12.6. Endocrine disrupting properties				
Adverse effects on the environment caused by endocrine disrupting properties	: The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 %.			
12.7. Other adverse effects				
Additional information	: Presents no specific risk for the environment			
SECTION 13: Disposal considerations				
13.1. Waste treatment methods				
Additional information	: Dispose in a safe manner in accordance with local/national regulations.			
SECTION 14: Transport information				
In accordance with ADR / IMDG / IATA / ADN / RID				
14.1. UN number or ID number				
UN-No. (ADR) UN-No. (IMDG) UN-No. (IATA) UN-No. (ADN) UN-No. (RID)	 Not applicable Not applicable Not applicable Not applicable Not applicable Not applicable 			

14.1. UN number or ID number	
UN-No. (ADR) UN-No. (IMDG) UN-No. (IATA) UN-No. (ADN) UN-No. (RID)	 Not applicable Not applicable Not applicable Not applicable Not applicable Not applicable
14.2. UN proper shipping name	
Proper Shipping Name (ADR) Proper Shipping Name (IMDG) Proper Shipping Name (IATA) Proper Shipping Name (ADN)	 Not applicable Not applicable Not applicable Not applicable Not applicable

Proper Shipping Name (RID) :	Not applicable
14.3. Transport hazard class(es)	
ADR Transport hazard class(es) (ADR) :	Not applicable
IMDG Transport hazard class(es) (IMDG) :	Not applicable
IATA Transport hazard class(es) (IATA) :	Not applicable

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

ADN Transport hazard class(es) (ADN)	: Not applicable	
RID Transport hazard class(es) (RID)	: Not applicable	
14.4. Packing group		
Packing group (ADR) Packing group (IMDG) Packing group (IATA) Packing group (ADN) Packing group (RID)	 Not applicable Not applicable Not applicable Not applicable Not applicable 	
14.5. Environmental hazards		
Other information	: No supplementary information available	
14.6. Special precautions for user		
Overland transport Not applicable		
Transport by sea Not applicable		
Air transport Not applicable		
Inland waterway transport Not applicable		
Rail transport		

Not applicable

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

15.1.1. EU-Regulations

REACH Annex XVII (Restriction List)

Contains no substance(s) listed on REACH Annex XVII (Restriction Conditions)

REACH Annex XIV (Authorisation List)

Contains no substance(s) listed on REACH Annex XIV (Authorisation List)

REACH Candidate List (SVHC)

Contains no substance(s) listed on the REACH Candidate List

PIC Regulation (Prior Informed Consent)

Contains no substance(s) listed on the PIC list (Regulation EU 649/2012 concerning the export and import of hazardous chemicals)

POP Regulation (Persistent Organic Pollutants)

Contains no substance(s) listed on the POP list (Regulation EU 2019/1021 on persistent organic pollutants)

Ozone Regulation (1005/2009)

Contains no substance(s) listed on the Ozone Depletion list (Regulation EU 1005/2009 on substances that deplete the ozone layer)

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

Dual-Use Regulation (428/2009)

Contains no substance subject to the COUNCIL REGULATION (EC) No 428/2009 of 5 May 2009 setting up a Community regime for the control of exports, transfer, brokering and transit of dual-use items.

Explosives Precursors Regulation (2019/1148)

Contains no substance(s) listed on the Explosives Precursors list (Regulation EU 2019/1148 on the marketing and use of explosives precursors)

Drug Precursors Regulation (273/2004)

Contains no substance(s) listed on the Drug Precursors list (Regulation EC 273/2004 on the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances)

15.1.2. National regulations

France

Occupational diseases		
Code	Description	
RG 84	Conditions caused by liquid organic solvents for professional use: saturated or unsaturated aliphatic or cyclic liquid hydrocarbons and mixtures thereof; liquid halogenated hydrocarbons; nitrated derivatives of aliphatic hydrocarbons alcohols; glycols, glycol ethers; ketones; aldehydes; aliphatic and cyclic ethers, including tetrahydrofuran; esters; dimethylformamide and dimethylacetamine; acetonitrile and propionitrile; pyridine; dimethylsulfone and dimethylsulfoxide	

Germany

oormany		
Water hazard class (WGK)	:	WGK 1, Slightly hazardous to water (Classification according to AwSV, Annex 1).
Hazardous Incident Ordinance (12. BImSchV)	:	Is not subject of the Hazardous Incident Ordinance (12. BImSchV)
Netherlands		
SZW-lijst van kankerverwekkende stoffen	:	None of the components are listed
SZW-lijst van mutagene stoffen	:	None of the components are listed
SZW-lijst van reprotoxische stoffen – Borstvoeding	:	None of the components are listed
SZW-lijst van reprotoxische stoffen – Vruchtbaarheid	:	None of the components are listed
SZW-lijst van reprotoxische stoffen – Ontwikkeling	:	None of the components are listed
Denmark		
MAL code	:	00-3 (Executive Order No. 301 from 1993)
Danish National Regulations	:	Young people below the age of 18 years are not allowed to use the product Pregnant/breastfeeding women working with the product must not be in direct contact with the product

15.2. Chemical safety assessment

No additional information available

SECTION 16: Other information

Indication of changes			
Section Changed item		Change	Comments
	Revision date	Added	
	Supersedes	Added	
9.1	Density	Modified	
9.1	Freezing point	Modified	

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

Other information	: The information in this SDS was obtained from sources which we believe are reliable.
	However, the information is provided without any warranty, express or implied, regarding its
	correctness. The conditions or methods of handling, storage, use or disposal of the product
	are beyond our control and may be beyond our knowledge. For this and other reasons, we
	do not assume responsibility and expressly disclaim liability for loss, damage or expense
	arising out of or in any way connected with the handling, storage, use or disposal of the
	product. This MSDS was prepared and is to be used only for this product. If the product is
	used as a component in another product, this MSDS information may not be applicable.

Full text of H- and EUH-statements:	
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
H302	Harmful if swallowed.
H319	Causes serious eye irritation.
H373	May cause damage to organs through prolonged or repeated exposure.
STOT RE 2	Specific target organ toxicity – Repeated exposure, Category 2

Safety Data Sheet (SDS), EU

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.