

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878 Issue date: 27/10/2023 Revision date: 10/09/2024 Supersedes version of: 20/12/2023 Version: 2.0

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

1.1. Product identifier

Product form Product name UFI Product code Type of product Product group	 Mixture CHAMPION ANTIFREEZE G12+ LL 2G7G-U7DT-2N4R-NQJG 50051 CHAMPION Blend

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

Relevant identified uses

 Main use category
 : Industrial use,Professional use,Consumer use

 Industrial/Professional use spec
 : Non-dispersive use

 Used in closed systems

 Function or use category
 : Liquid for car cooling circuit

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

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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))
nazara	piologianio		

	GHS07 GHS08
Signal word (CLP)	: Warning
Contains	: ethanediol
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 vapours, spray.
	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.

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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

3.2. 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	85 – 98	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 REACH-no: 01-2120762063- 61	1 – 3	Eye Irrit. 2, H319
Sodium 4(or 5)-methyl-1H-benzotriazolide	CAS-No.: 64665-57-2 EC-No.: 265-004-9	< 0.3	Acute Tox. 4 (Oral), H302 (ATE=500 mg/kg bodyweight) Skin Corr. 1B, H314 Eye Dam. 1, H318 Repr. 2, H361d Aquatic Chronic 2, H411

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

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SECTION 4: First aid measures	
4.1. Description of first aid measures	3
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	lical 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 subst	ance or mixture
Hazardous decomposition products in case of fire	: Toxic fumes may be released.
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 measure	res

6.1. Personal precautions, protective e	quipment and emergency procedures
For non-emergency personnel	
Protective equipment	: Wear suitable protective clothing and gloves.
For emergency responders	
Protective equipment	: Wear suitable protective clothing and gloves.
6.2. Environmental precautions	
Prevent entry to sewers and public waters. Not	fy authorities if product enters sewers or public waters.
6.3. Methods and material for containing	ent and cleaning up

olo: mothodo and material for containing	on and ordaning up
For containment Methods for cleaning up	 Impound and recover large spill by mixing it with inert granular solids. Detergent. Small quantities of liquid spill: take up in non-combustible absorbent material and shovel into container for disposal.

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Other information : 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	 Ensure good ventilation of the work station. Avoid aerosolbuilding. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.
7.2. Conditions for safe storage, including	ng any incompatibilities
Storage temperature Storage area Special rules on packaging Packaging materials	 40 °C Store in dry, cool, well-ventilated area. Packaging destined for the general public must be fitted with a tactile danger indication. Store always product in container of same material as original container.
Germany Storage class (LGK, TRGS 510) Switzerland Storage class (LK)	: LGK 10-13 - Other combustible and non-combustible substances
7.3. Specific end use(s)	

Anti-Freeze and De-icing products.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

National occupational exposure and biological limit values

ethanediol (107-21-1)	
EU - Indicative Occupational Exposure Limit (IOEL)	
IOEL TWA	52 mg/m ³
	20 ppm
IOEL STEL	104 mg/m³
	40 ppm
Ireland - Occupational Exposure Limits	
OEL TWA	52 mg/m³
	20 ppm
OEL STEL	40 mg/m³
	104 ppm
Sweden - Occupational Exposure Limits	
NGV (OEL TWA)	25 mg/m³
	10 ppm
KTV (OEL STEL)	25 mg/m³
	10 ppm

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8.2. Exposure controls

Personal protection equipment

Personal protective equipment:

Safety glasses. Gloves.

Personal protective equipment symbol(s):



Eye and face protection

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

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) /

Respiratory protection

Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment

9.1. Information on basic physical and ch	emical properties	
Physical state	: Liquid	
Colour	: pink.	
Appearance	: Liquid.	
Odour	: mild. slight.	
Odour threshold	: Not available	
Melting point	: Not available	
Freezing point	: Not available	
Boiling point	: > 160 °C	
Flammability	: Not available	
Lower explosion limit	: Not available	
Upper explosion limit	: Not available	
Flash point	: 111 °C	
Auto-ignition temperature	: 398 °C	
Decomposition temperature	: Not available	
рН	: 8.4 (50%)	
pH solution	: ≥0	
Viscosity, kinematic	: Not available	
Solubility	: Not available	
Partition coefficient n-octanol/water (Log Kow)	: Not available	
Vapour pressure	: 0.1 hPa @25°C	
Vapour pressure at 50°C	: Not available	
Density	: 1.123 g/ml @20°C	
Relative density	: Not available	
Relative vapour density at 20°C	: Not available	
Particle characteristics	: Not applicable	

9.2. Other information

No additional information available

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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 data available.
10.5. Incompatible materials
No data available.
10.6. Hazardous decomposition products

None under normal conditions.

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	
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 401)	
LD50 dermal rat	> 2000 mg/kg (OECD 402)	
Sodium 4(or 5)-methyl-1H-benzotriazolide (6	4665-57-2)	
LD50 dermal rabbit	> 2000 mg/kg bodyweight Animal: rabbit, Guideline: OECD Guideline 402 (Acute Dermal Toxicity)	
Skin corrosion/irritation	Not classified (Based on available data, the classification criteria are not met) pH: 8.4 (50%)	
Serious eye damage/irritation	Not classified (Based on available data, the classification criteria are not met) pH: 8.4 (50%)	
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)	

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STOT-single exposure	: Not classified (Based on available data, the classification criteria are not met)
STOT-repeated exposure	: 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.
Sodium 4(or 5)-methyl-1H-benzotriaz	colide (64665-57-2)
NOAEL (oral, rat, 90 days)	≈ 150 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 407 (Repeated Dose 28- Day Oral Toxicity Study in Rodents)
Aspiration hazard	: Not classified (Based on available data, the classification criteria are not met)
11.2. Information on other hazards	
Other information	

Potential adverse human health effects and symptoms

: Ingestion may cause nausea, vomiting and diarrhea

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]	72860 mg/l @96h; Pimephales promelas (EPA 600/4-90/027)	
EC50 - Crustacea [1]	> 100 mg/l @48h; Daphnia magna (OECD 202)	
EC50 96h - Algae [1]	> 6500 – < 13000 mg/l (EPA 600/9-78-018)	
NOEC chronic fish	15380 mg/l @7d; Pimephales promelas (EPA 600/4-89/001)	
NOEC chronic crustacea	8590 mg/l Ceriodaphnia dubia (EPA 600/4-89/001)	
disodium sebacate (17265-14-4)		
LC50 - Fish [1]	> 100 mg/l	
EC50 - Crustacea [1]	> 100 mg/l OECD Guideline 202, Daphnia magna	
EC50 72h - Algae [1]	38.7 mg/I ISO 10253, Skeletonema costatum	
NOEC chronic algae	3 mg/I ISO 10253, Skeletonema costatum	
Sodium 4(or 5)-methyl-1H-benzotriazolide (64	665-57-2)	
LC50 - Fish [1]	180 mg/l @96h; Danio rerio (OECD203)	
EC50 - Crustacea [1]	8.58 mg/l @48h; Daphnia magna (OECD 202)	
EC50 72h - Algae [1]	2.86 mg/l Desmodesmus subspicatus (OECD 201)	
LOEC (chronic)	37.6 mg/l Test organisms (species): Daphnia magna Duration: '21 d'	
NOEC (chronic)	18.4 mg/l Test organisms (species): Daphnia magna Duration: '21 d'	
NOEC chronic crustacea	0.4 mg/l @21d; Daphnia magna (OECD 211)	

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12.2. Persistence and degradability		
CHAMPION ANTIFREEZE G12+ LL		
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 % 28 d, OECD Guideline 306	
Sodium 4(or 5)-methyl-1H-benzotriazolide (64	665-57-2)	
Persistence and degradability	Rapidly degradable	
12.3. Bioaccumulative potential		
ethanediol (107-21-1)		
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 Guideline 105	
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		
No additional information available		
12.7. Other adverse effects		
Additional information :	Presents no specific risk for the environment	
SECTION 13: Disposal considerations		

SECTION 13: Disposal considerations	
13.1. Waste treatment methods	
Additional information	: Dispose in a safe manner in accordance with local/national regulations.

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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
14.2. UN proper shipping name	
Proper Shipping Name (ADR) Proper Shipping Name (IMDG) Proper Shipping Name (IATA) Proper Shipping Name (ADN) Proper Shipping Name (RID)	 Not applicable Not applicable Not applicable Not applicable Not applicable 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
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 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	

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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

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)

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)

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

Water hazard class (WGK) Hazardous Incident Ordinance (12. BImSchV)	 WGK nwg, Non-hazardous to water (Classification according to AwSV, Annex 1). Is not subject of the Hazardous Incident Ordinance (12. BImSchV)
Netherlands	
SZW-lijst van kankerverwekkende stoffen	: Sodium 4(or 5)-methyl-1H-benzotriazolide is listed
SZW-lijst van mutagene stoffen	: Sodium 4(or 5)-methyl-1H-benzotriazolide is listed
SZW-lijst van reprotoxische stoffen – Borstvoeding	: None of the components are listed
SZW-lijst van reprotoxische stoffen –	: None of the components are listed
Vruchtbaarheid	
SZW-lijst van reprotoxische stoffen – Ontwikkeling	: None of the components are listed

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Denmark

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	Comments
1.1	UFI on SDS 1.1	Modified
3	Composition/information on ingredients	Modified
9	Viscosity, kinematic	Removed
9	Freezing point	Removed
9	Viscosity, dynamic	Removed
9	Vapour pressure at 50°C	Removed
9	Auto-ignition temperature	Modified
9	Vapour pressure	Modified
9	рН	Modified
9	Solubility	Removed
9	Density	Modified
9	Boiling point	Modified
9.1	Decomposition temperature	Removed

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
Aquatic Chronic 2	Hazardous to the aquatic environment – Chronic Hazard, Category 2
Eye Dam. 1	Serious eye damage/eye irritation, Category 1
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H361d	Suspected of damaging the unborn child.

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Full text of H- and EUH-statements:	
H373	May cause damage to organs through prolonged or repeated exposure.
H411	Toxic to aquatic life with long lasting effects.
Repr. 2	Reproductive toxicity, Category 2
Skin Corr. 1B	Skin corrosion/irritation, Category 1, Sub-Category 1B
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.