

# Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878 Issue date: 6/20/2015 Revision date: 11/10/2022 Supersedes version of: 8/12/2018 Version: 2.0

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

#### 1.1. Product identifier

Product form : Mixture

Product name : ANTIFREEZE G11B ( -60C)

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

#### 1.2.1. Relevant identified uses

Main use category : Professional use, Consumer use

Use of the substance/mixture : It is intended for cooling the internal combustion engine

#### 1.2.2. Uses advised against

No additional information available

#### 1.3. Details of the supplier of the safety data sheet

#### Manufacturer

Industrialna himia EOOD

2137 Dolno Kamartsi - BULGARIA Sofia Region

T+359 88 759 2190

info@himia.bg - http://www.himia.bg/

E-mail address of competent person responsible for the SDS: cgs@himia.bg

#### 1.4. Emergency telephone number

Emergency number : European emergency number: 112

## **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

## Adverse physicochemical, human health and environmental effects

May cause damage to organs through prolonged or repeated exposure. Harmful if swallowed.

# 2.2. Label elements

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

Hazard pictograms (CLP)

GHS08

Signal word (CLP) : Warning

Contains : ethanediol; ethylene glycol; sodium nitrite

Hazard statements (CLP) : H302 - Harmful if swallowed.

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

Precautionary statements (CLP) : P270 - Do not eat, drink or smoke when using this product.

P301+P312 - IF SWALLOWED: Call a POISON CENTRE or doctor if you feel unwell.

P314 - Get medical advice/attention if you feel unwell.

EUH-statements : EUH208 - Contains reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-

2H-isothiazol-3-one (3:1)(55965-84-9). May produce an allergic reaction.

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#### 2.3. Other hazards

This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII Contains no PBT/vPvB substances ≥ 0.1% assessed in accordance with REACH Annex XIII

Component	
disodium tetraborate decahydrate (1303-96-4)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, 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; ethylene glycol substance with a Community workplace exposure limit	CAS-No.: 107-21-1 EC-No.: 203-473-3 EC Index-No.: 603-027-00-1 REACH-no: 01-2119456816- 28	70 – 90	Acute Tox. 4 (Oral), H302 STOT RE 2, H373
sodium nitrite	CAS-No.: 7632-00-0 EC-No.: 231-555-9 EC Index-No.: 007-010-00-4	≤ 1	Ox. Sol. 3, H272 Acute Tox. 3 (Oral), H301 Aquatic Acute 1, H400
reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)	CAS-No.: 55965-84-9 EC Index-No.: 613-167-00-5	≤ 0.02	Acute Tox. 3 (Inhalation), H331 Acute Tox. 3 (Dermal), H311 Acute Tox. 3 (Oral), H301 Skin Corr. 1B, H314 Skin Sens. 1, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410

Specific concentration limits:		
Name	Product identifier	Specific concentration limits
reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)	CAS-No.: 55965-84-9 EC Index-No.: 613-167-00-5	( 0.0015 ≤C < 100) Skin Sens. 1, H317 ( 0.06 ≤C < 0.6) Skin Irrit. 2, H315 ( 0.06 ≤C < 0.6) Eye Irrit. 2, H319 ( 0.6 ≤C < 100) Skin Corr. 1B, H314

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

# **SECTION 4: First aid measures**

## 4.1. Description of first aid measures

First-aid measures general : Call a poison center or a doctor if you feel unwell.

First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing.

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First-aid measures after skin contact : Wash skin with plenty of water.
First-aid measures after eye contact : Rinse eyes with water as a precaution.

First-aid measures after ingestion : Rinse mouth. Call a poison center or a doctor if you feel unwell.

#### 4.2. Most important symptoms and effects, both acute and delayed

No additional information available

## 4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

## **SECTION 5: Firefighting measures**

### 5.1. Extinguishing media

Suitable extinguishing media : Water spray. Dry powder. Foam. Carbon dioxide.

#### 5.2. Special hazards arising from the substance or mixture

Hazardous decomposition products in case of fire : Toxic fumes may be released.

#### 5.3. Advice for firefighters

Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained

breathing apparatus. Complete protective clothing.

## **SECTION 6: Accidental release measures**

## 6.1. Personal precautions, protective equipment and emergency procedures

## 6.1.1. For non-emergency personnel

Emergency procedures : Ventilate spillage area. Do not breathe dust/fume/gas/mist/vapours/spray.

6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. For further information

refer to section 8: "Exposure controls/personal protection".

## 6.2. Environmental precautions

Avoid release to the environment.

## 6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Take up liquid spill into absorbent material.

Other information : Dispose of materials or solid residues at an authorized site.

#### 6.4. Reference to other sections

For further information refer to section 13.

# **SECTION 7: Handling and storage**

# 7.1. Precautions for safe handling

Precautions for safe handling : Ensure good ventilation of the work station. Wear personal protective equipment. Do not

breathe dust/fume/gas/mist/vapours/spray.

Hygiene measures : Do not eat, drink or smoke when using this product. Always wash hands after handling the

product.

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

Storage conditions : Store in a well-ventilated place. Keep cool.

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## 7.3. Specific end use(s)

No additional information available

## SECTION 8: Exposure controls/personal protection

## 8.1. Control parameters

## 8.1.1 National occupational exposure and biological limit values

ethanediol; ethylene glycol (107-21-1)		
EU - Indicative Occupational Exposure Limit (IOEL)		
Local name	Ethylene glycol	
IOEL TWA	52 mg/m³	
IOEL TWA [ppm]	20 ppm	
IOEL STEL	104 mg/m³	
IOEL STEL [ppm]	40 ppm	
Remark	Skin	
Regulatory reference	COMMISSION DIRECTIVE 2000/39/EC	

#### 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

#### Appropriate engineering controls:

Ensure good ventilation of the work station.

## 8.2.2. Personal protection equipment

# Personal protective equipment:

Protective goggles.

### Personal protective equipment symbol(s):







#### 8.2.2.1. Eye and face protection

### Eye protection:

Safety glasses

### 8.2.2.2. Skin protection

## Skin and body protection:

Wear suitable protective clothing

### Hand protection:

Protective gloves

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#### 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

#### **Environmental exposure controls:**

Avoid release to the environment.

# **SECTION 9: Physical and chemical properties**

# 9.1. Information on basic physical and chemical properties

Physical state : Liquid Colour : Blue. Odour : characteristic. Odour threshold : Not available Melting point : Not applicable Freezing point : Not available : Not available Boiling point Flammability : Not applicable : Not available **Explosive limits** : Not available Lower explosion limit : Not available Upper explosion limit Flash point : Not available : Not available Auto-ignition temperature Decomposition temperature : Not available рΗ : < 8 at 20C Viscosity, kinematic : Not available Solubility : Soluble in water. Partition coefficient n-octanol/water (Log Kow) : Not available

Vapour pressure : Not available
Vapour pressure at 50°C : Not available
Density : 1.09 – 1.092 g/cm³
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

VOC content : 0 %

## **SECTION 10: Stability and reactivity**

#### 10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

## 10.2. Chemical stability

Stable under normal conditions.

#### 10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

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#### 10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7).

#### 10.5. Incompatible materials

No additional information available

#### 10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

# **SECTION 11: Toxicological information**

#### 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity (oral) : Harmful if swallowed.

Acute toxicity (dermal) : Not classified (Based on available data, the classification criteria are not met)
Acute toxicity (inhalation) : Not classified (Based on available data, the classification criteria are not met)

ANTIFREEZE G11B ( -60C)		
ATE CLP (oral)	666.667 mg/kg bodyweight	
ethanediol; ethylene glycol (107-21-1)		
LD50 oral rat	6 h	
LD50 oral	> 3500 mg/kg mouse	
LC50 Inhalation - Rat	> 2.5 mg/l 6 h	
disodium tetraborate decahydrate (1303-96-4)		
LD50 oral rat	600 mg/kg	
LD50 dermal rabbit	> 2000 mg/kg	
Skin corrosion/irritation	Not classified (Based on available data, the classification criteria are not met)	

Skill corrosion/illitation	•	Not classified (based off available data, the classification chiefla are not met)	
		-11- + 0 -+ 00C	

pH: < 8 at 20C

## disodium tetraborate decahydrate (1303-96-4)

На	≈ 9.2 20 C

Serious eye damage/irritation : Not classified (Based on available data, the classification criteria are not met)

pH: < 8 at 20C

#### disodium tetraborate decahydrate (1303-96-4)

pH ≈ 9.	2 20 C
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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)

Reproductive toxicity

: Not classified (Based on available data, the classification criteria are not met)

STOT-single exposure

: Not classified (Based on available data, the classification criteria are not met)

STOT-repeated exposure

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

## ethanediol; ethylene glycol (107-21-1)

STOT-repeated exposure	May cause damage to organs through prolonged or repeated exposure.
3 1 O 1-1 Epealed Exposure	i May cause damage to organs infough profonged of repeated exposure.

Aspiration hazard : Not classified (Based on available data, the classification criteria are not met)

### 11.2. Information on other hazards

No additional information available

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# **SECTION 12: Ecological information**

## 12.1. Toxicity

Ecology - general : The product is not considered harmful to aquatic organisms nor to cause long-term adverse

effects in the environment.

Hazardous to the aquatic environment, short-term

(acute)

: Not classified (Based on available data, the classification criteria are not met)

: Not classified (Based on available data, the classification criteria are not met)

Hazardous to the aquatic environment, long-term (chronic)

,		
ethanediol; ethylene glycol (107-21-1)		
LC50 - Fish [1]	72860 mg/l Pimephales promelas	
EC50 - Crustacea [1]	> 100 mg/l Daphnia magna	
EC50 72h - Algae [1]	6500 – 13000 mg/l Selenastrum capricornutum	
EC20, microorganisms	> 1995 mg/l	
NOEC, Pimephales promelas	15380 mg/l (7 days)	
NOEC, Ceriodaphnia dubia	8590 mg/l (7 days)	
disodium tetraborate decahydrate (1303-96-4)		
LC50 - Fish [1]	456 mg/l	
EC50 - Crustacea [1]	760 mg/l	
EC50 72h - Algae [1]	229 mg/l	

## 12.2. Persistence and degradability

ANTIFREEZE G11B ( -60C)		
Persistence and degradability	Product is biodegradable.	
disodium tetraborate decahydrate (1303-96-4)		
Persistence and degradability	Product is biodegradable.	

# 12.3. Bioaccumulative potential

ANTIFREEZE G11B ( -60C)	
Bioaccumulative potential	Not established.
disodium tetraborate decahydrate (1303-96-4)  Partition coefficient n-octanol/water (Log Kow)  -1.53	

# 12.4. Mobility in soil

No additional information available

## 12.5. Results of PBT and vPvB assessment

# **ANTIFREEZE G11B (-60C)**

This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII

This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

## Component

disodium tetraborate decahydrate (1303-96-4)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII
	This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

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## 12.6. Endocrine disrupting properties

No additional information available

## 12.7. Other adverse effects

Additional information : Avoid release to the environment.

# **SECTION 13: Disposal considerations**

## 13.1. Waste treatment methods

Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.

European List of Waste (LoW) code : 14 06 03\* - other solvents and solvent mixtures

15 01 10\* - packaging containing residues of or contaminated by dangerous substances

# **SECTION 14: Transport information**

In accordance with ADR / IMDG / IATA / ADN / RID

ADR	IMDG	IATA	ADN	RID
14.1. UN number or ID n	umber			
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
14.2. UN proper shippin	g name			
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
14.3. Transport hazard o	class(es)			
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
14.4. Packing group				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
14.5. Environmental haz	ards			
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
No supplementary informatio	n available			

# 14.6. Special precautions for user

#### **Overland transport**

Not regulated

## Transport by sea

Not regulated

## Air transport

Not regulated

#### Inland waterway transport

Not regulated

### Rail transport

Not regulated

# 14.7. Maritime transport in bulk according to IMO instruments

Not applicable

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### **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)**

EU restriction list (REACH Annex XVII)			
Reference code	Applicable on	Entry title or description	
3.	ethanediol; ethylene glycol; reaction mass of 5-chloro-2-methyl-2H- isothiazol-3-one and 2- methyl-2H-isothiazol-3- one (3:1)	Liquid substances or mixtures which are regarded as dangerous in accordance with Directive 1999/45/EC or are fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008	
3(b)	ANTIFREEZE G11B ( - 60C); ethanediol; ethylene glycol; reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)	Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard classes 3.1 to 3.6, 3.7 adverse effects on sexual function and fertility or on development, 3.8 effects other than narcotic effects, 3.9 and 3.10	
3(c)	reaction mass of 5-chloro- 2-methyl-2H-isothiazol-3- one and 2-methyl-2H- isothiazol-3-one (3:1)	Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard class 4.1	
30.	disodium tetraborate decahydrate	Substances which are classified as reproductive toxicant category 1A or 1B in Part 3 of Annex VI to Regulation (EC) No 1272/2008 and are listed in Appendix 5 or Appendix 6, respectively.	

#### **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)

#### VOC Directive (2004/42)

VOC content : 0 %

# **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

No additional information available

#### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out

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# **SECTION 16: Other information**

Full text of H- and EUH-statements:				
Acute Tox. 3 (Dermal)	Acute toxicity (dermal), Category 3			
Acute Tox. 3 (Inhalation)	Acute toxicity (inhal.), Category 3			
Acute Tox. 3 (Oral)	Acute toxicity (oral), Category 3			
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4			
Aquatic Acute 1	Hazardous to the aquatic environment – Acute Hazard, Category 1			
Aquatic Chronic 1	Hazardous to the aquatic environment – Chronic Hazard, Category 1			
EUH208	Contains reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)(55965-84-9). May produce an allergic reaction.			
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2			
H272	May intensify fire; oxidiser.			
H301	Toxic if swallowed.			
H302	Harmful if swallowed.			
H311	Toxic in contact with skin.			
H314	Causes severe skin burns and eye damage.			
H315	Causes skin irritation.			
H317	May cause an allergic skin reaction.			
H319	Causes serious eye irritation.			
H331	Toxic if inhaled.			
H373	May cause damage to organs through prolonged or repeated exposure.			
H400	Very toxic to aquatic life.			
H410	Very toxic to aquatic life with long lasting effects.			
Ox. Sol. 3	Oxidising Solids, Category 3			
Skin Corr. 1B	Skin corrosion/irritation, Category 1, Sub-Category 1B			
Skin Irrit. 2	Skin corrosion/irritation, Category 2			
Skin Sens. 1	Skin sensitisation, Category 1			
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.