



# SAFETY DATA SHEET

according to Commission Regulation (EU) 2020/878 as amended

## G12+ koncentrat

Creation date 10th March 2023  
Revision date Version 1.0

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

- 1.1. Product identifier**  
Substance / mixture G12+ koncentrat  
mixture  
UFI KQ90-40QF-T000-KQNY
- 1.2. Relevant identified uses of the substance or mixture and uses advised against**  
**Mixture's intended use**  
Concentrate: Liquid for cooling systems of combustion engines.  
For specific application advice see appropriate Technical Data Sheet or consult our company representative.  
**Mixture uses advised against**  
Not defined.
- 1.3. Details of the supplier of the safety data sheet**  
**Manufacturer**  
Name or trade name SPECOL Sp. z o.o.  
Address ul. Kluczborska 31, Chorzów, 41-508  
Poland  
VAT Reg No PL6272453121  
Phone 32 245 91 33  
E-mail info@specol.com.pl  
Web address www.specol.com.pl
- Competent person responsible for the safety data sheet**  
Name SPECOL Sp. z o.o.  
E-mail info@specol.com.pl
- 1.4. Emergency telephone number**  
European emergency number: 112

### SECTION 2: Hazards identification

- 2.1. Classification of the substance or mixture**  
**Classification of the mixture in accordance with Regulation (EC) No 1272/2008**  
The mixture is classified as dangerous.
- Acute Tox. 4, H302  
STOT RE 2, H373 (kidneys)
- Full text of all classifications and hazard statements is given in the section 16.
- Most serious adverse effects on human health and the environment**  
Harmful if swallowed. May cause damage to the kidneys through prolonged or repeated exposure.

- 2.2. Label elements**  
**Hazard pictogram**



**Signal word**  
Warning

#### Hazardous substances

1,2-Ethanediol

#### Hazard statements

H302 Harmful if swallowed.  
H373 May cause damage to the kidneys 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.



# SAFETY DATA SHEET

according to Commission Regulation (EU) 2020/878 as amended

## G12+ konzentrat

|               |                 |         |     |
|---------------|-----------------|---------|-----|
| Creation date | 10th March 2023 | Version | 1.0 |
| Revision date |                 |         |     |

|           |                                                                                                                                |
|-----------|--------------------------------------------------------------------------------------------------------------------------------|
| P260      | Do not breathe vapours.                                                                                                        |
| P264      | Wash hands and exposed parts of the body thoroughly after handling.                                                            |
| P270      | Do not eat, drink or smoke when using this product.                                                                            |
| P301+P312 | IF SWALLOWED: Call a doctor if you feel unwell.                                                                                |
| P314      | Get medical advice/attention if you feel unwell.                                                                               |
| P501      | Dispose of contents/container to by handing over to the person authorized to dispose of waste or by returning to the supplier. |

### Requirements for child-resistant fastenings and tactile warning of danger

Container must carry a tactile warning of danger.

### 2.3. Other hazards

The mixture does not contain substances with endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605. Mixture does not contain any substance meet the criteria for PBT or vPvB in accordance with Annex XIII of Regulation (EC) No. 1907/2006 (REACH) as amended.

## SECTION 3: Composition/information on ingredients

### 3.2. Mixtures

**Mixture contains these hazardous substances and substances with the highest permissible concentration in the working environment**

| Identification numbers                                | Substance name       | Content in % weight | Classification according to Regulation (EC) No 1272/2008 | Note |
|-------------------------------------------------------|----------------------|---------------------|----------------------------------------------------------|------|
| Index: 603-027-00-1<br>CAS: 107-21-1<br>EC: 203-473-3 | 1,2-Ethanediol       | >85                 | Acute Tox. 4, H302<br>STOT RE 2, H373 (kidneys)          | 1    |
| Index: 603-027-00-1<br>CAS: 107-21-1<br>EC: 203-473-3 | ethanediol           | 2-3                 | Acute Tox. 4, H302                                       | 1    |
| Index: 607-230-00-6<br>CAS: 149-57-5<br>EC: 205-743-6 | 2-ethylhexanoic acid | 1,05-1,4            | Repr. 2 (***), H361d                                     |      |

### Notes

\*\*\* reproductive toxicity: supplementary letters specify whether fetal harm (d) or fertility harm (f) may occur

1 A substance for which exposure limits are set.

Full text of all classifications and hazard statements is given in the section 16.

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

Take care of your own safety. If any health problems are manifested or if in doubt, inform a doctor and show him information from this safety data sheet. If unconscious, put the person in the stabilized (recovery) position on his side with his head slightly bent backwards and make sure that airways are free; never induce vomiting. If the person vomits by himself, make sure that the vomit is not inhaled. In life threatening conditions first of all provide resuscitation of the affected person and ensure medical assistance. Respiratory arrest - provide artificial respiration immediately. Cardiac arrest - provide indirect cardiac massage immediately.

#### If inhaled

Terminate the exposure immediately; move the affected person to fresh air. Protect the person against growing cold. Provide medical treatment if irritation, dyspnoea or other symptoms persist.

#### If on skin

Remove contaminated clothes. Wash the affected area with plenty of water, lukewarm if possible. Soap, soap solution or shampoo should be used if there is no skin injury. Provide medical treatment if skin irritation persists.

#### If in eyes

Rinse eyes immediately with a flow of running water, open the eyelids (also using force if needed); remove contact lenses immediately if worn by the affected person. Rinsing should continue at least for 10 minutes.

#### If swallowed

Rinse out the mouth with water and provide 2-5 dL of water. Provide medical treatment.



# SAFETY DATA SHEET

according to Commission Regulation (EU) 2020/878 as amended

## G12+ konzentrat

|               |                 |         |     |
|---------------|-----------------|---------|-----|
| Creation date | 10th March 2023 | Version | 1.0 |
| Revision date |                 |         |     |

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

#### If inhaled

Cough, headache.

#### If on skin

Not expected.

#### If in eyes

Not expected.

#### If swallowed

Irritation, nausea.

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

Symptomatic treatment.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

#### Suitable extinguishing media

Alcohol-resistant foam, carbon dioxide, powder, water spray jet, water mist.

#### Unsuitable extinguishing media

Water - full jet.

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

In the event of fire, carbon monoxide, carbon dioxide and other toxic gases may arise. Inhalation of hazardous degradation (pyrolysis) products may cause serious health damage.

### 5.3. Advice for firefighters

Self-Contained Breathing Apparatus (SCBA) with a chemical protection suit only where personal (close) contact is likely. Use a self-contained breathing apparatus and full-body protective clothing. Do not allow run-off of contaminated fire extinguishing material to enter drains or surface and ground water.

## SECTION 6: Accidental release measures

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

Use personal protective equipment for work. Follow the instructions in the Sections 7 and 8. Prevent contact with skin and eyes.

### 6.2. Environmental precautions

Prevent contamination of the soil and entering surface or ground water.

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

Spilled product should be covered with suitable (non-flammable) absorbing material (sand, diatomaceous earth, earth and other suitable absorption materials); to be contained in well closed containers and removed as per the Section 13. In the event of leakage of the substantial amount of the product, inform fire brigade and other competent bodies. After removal of the product, wash the contaminated site with plenty of water. Do not use solvents.

### 6.4. Reference to other sections

See the Section 7, 8 and 13.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Prevent formation of gases and vapours in concentrations exceeding the occupational exposure limits. Prevent contact with skin and eyes. Do not eat, drink or smoke when using this product. Wash hands and exposed parts of the body thoroughly after handling. Use personal protective equipment as per Section 8. Observe valid legal regulations on safety and health protection.

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

Store in tightly closed containers in cold, dry and well ventilated areas designated for this purpose.

### 7.3. Specific end use(s)

not available

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

The mixture contains substances for which occupational exposure limits are set.



# SAFETY DATA SHEET

according to Commission Regulation (EU) 2020/878 as amended

## G12+ konzentrat

Creation date

10th March 2023

Revision date

Version

1.0

### European Union

### Commission Directive 2000/39/EC

| Substance name (component)     | Type           | Value                 | Note |
|--------------------------------|----------------|-----------------------|------|
| 1,2-Ethanediol (CAS: 107-21-1) | OEL 8 hours    | 52 mg/m <sup>3</sup>  | Skin |
|                                | OEL 8 hours    | 20 ppm                |      |
|                                | OEL 15 minutes | 104 mg/m <sup>3</sup> |      |
|                                | OEL 15 minutes | 40 ppm                |      |

### 8.2. Exposure controls

Follow the usual measures intended for health protection at work and especially for good ventilation. This can be achieved only by local suction or efficient general ventilation. Do not eat, drink and smoke during work. Wash your hands thoroughly with water and soap after work and before breaks for a meal and rest.

#### Eye/face protection

It is not needed.

#### Skin protection

Hand protection: Protective gloves resistant to the product. Contaminated skin should be washed thoroughly.

#### Respiratory protection

Halfmask with a filter against organic vapours or a self-contained breathing apparatus as appropriate if exposure limit values of substances are exceeded or in a poorly ventilated environment.

#### Thermal hazard

Not available.

#### Environmental exposure controls

Observe usual measures for protection of the environment, see Section 6.2.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

|                                                          |                                 |
|----------------------------------------------------------|---------------------------------|
| Physical state                                           | liquid                          |
| Colour                                                   | data not available              |
| Odour                                                    | data not available              |
| Melting point/freezing point                             | data not available              |
| Boiling point or initial boiling point and boiling range | >160 °C                         |
| Flammability                                             | data not available              |
| Lower and upper explosion limit                          | data not available              |
| Flash point                                              | data not available              |
| Auto-ignition temperature                                | data not available              |
| Decomposition temperature                                | data not available              |
| pH                                                       | 7-11 (undiluted at 25 °C)       |
| Kinematic viscosity                                      | data not available              |
| Solubility in water                                      | data not available              |
| Partition coefficient n-octanol/water (log value)        | data not available              |
| Vapour pressure                                          | data not available              |
| Density and/or relative density                          |                                 |
| Density                                                  | 1,14 g/cm <sup>3</sup> at 20 °C |
| Relative vapour density                                  | data not available              |
| Particle characteristics                                 | data not available              |

### 9.2. Other information

not available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

not available



# SAFETY DATA SHEET

according to Commission Regulation (EU) 2020/878 as amended

## G12+ koncentrat

|               |                 |         |     |
|---------------|-----------------|---------|-----|
| Creation date | 10th March 2023 | Version | 1.0 |
| Revision date |                 |         |     |

### 10.2. Chemical stability

The product is stable under normal conditions.

### 10.3. Possibility of hazardous reactions

Unknown.

### 10.4. Conditions to avoid

The product is stable and no degradation occurs under normal use. Protect against flames, sparks, overheating and against frost.

### 10.5. Incompatible materials

Protect against strong acids, bases and oxidizing agents.

### 10.6. Hazardous decomposition products

Not developed under normal uses. Dangerous outcomes such as carbon monoxide and carbon dioxide are formed at high temperature and in fire.

## SECTION 11: Toxicological information

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

Inhalation of solvent vapors above values exceeding exposure limits for working environment may result in acute inhalation poisoning, depending on the level of concentration and exposure time. No toxicological data is available for the mixture.

#### Acute toxicity

Harmful if swallowed.

#### Skin corrosion/irritation

Based on available data the classification criteria are not met.

#### Serious eye damage/irritation

Based on available data the classification criteria are not met.

#### Respiratory or skin sensitisation

Based on available data the classification criteria are not met.

#### Germ cell mutagenicity

Based on available data the classification criteria are not met.

#### Carcinogenicity

Based on available data the classification criteria are not met.

#### Reproductive toxicity

Based on available data the classification criteria are not met.

#### Toxicity for specific target organ - single exposure

Based on available data the classification criteria are not met.

#### Toxicity for specific target organ - repeated exposure

May cause damage to the kidneys through prolonged or repeated exposure.

#### Aspiration hazard

Based on available data the classification criteria are not met.

### 11.2. Information on other hazards

The mixture does not contain substances with endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605.

## SECTION 12: Ecological information

### 12.1. Toxicity

#### Acute toxicity

### 12.2. Persistence and degradability

not available

### 12.3. Bioaccumulative potential

Not available.

### 12.4. Mobility in soil

Not available.

### 12.5. Results of PBT and vPvB assessment

Product does not contain any substance meeting the criteria for PBT or vPvB in accordance with the Annex XIII of Regulation (EC) No 1907/2006 (REACH) as amended.

### 12.6. Endocrine disrupting properties



# SAFETY DATA SHEET

according to Commission Regulation (EU) 2020/878 as amended

## G12+ konzentrat

|               |                 |         |     |
|---------------|-----------------|---------|-----|
| Creation date | 10th March 2023 | Version | 1.0 |
| Revision date |                 |         |     |

The mixture does not contain substances with endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605.

### 12.7. Other adverse effects

Not available.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Hazard of environmental contamination; dispose of the waste in accordance with the local and/or national regulations. Proceed in accordance with valid regulations on waste disposal. Any unused product and contaminated packaging should be put in labelled containers for waste collection and submitted for disposal to a person authorised for waste removal (a specialized company) that is entitled for such activity. Do not empty unused product in drainage systems. The product must not be disposed of with municipal waste. Empty containers may be used at waste incinerators to produce energy or deposited in a dump with appropriate classification. Perfectly cleaned containers can be submitted for recycling.

#### Waste management legislation

Directive 2008/98/EC of the European Parliament and of the Council of 19 November 2008 on waste, as amended. Decision 2000/532/EC establishing a list of wastes, as amended.

#### Waste type code

16 01 14 antifreeze fluids containing hazardous substances \*

(\*) - Hazardous waste according to Directive 2008/98/EC on hazardous waste

## SECTION 14: Transport information

### 14.1. UN number or ID number

not subject to transport regulations

### 14.2. UN proper shipping name

not relevant

### 14.3. Transport hazard class(es)

not relevant

### 14.4. Packing group

not relevant

### 14.5. Environmental hazards

not relevant

### 14.6. Special precautions for user

Reference in the Sections 4 to 8.

### 14.7. Maritime transport in bulk according to IMO instruments

not relevant

## SECTION 15: Regulatory information

### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Regulation (EC) No. 1907/2006 of the European Parliament and of the Council of 18th December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing the European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No. 793/93 and Commission Regulation (EC) No. 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, as amended. REGULATION (EC) No. 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL as amended. Commission Regulation (EU) 2020/878 of 18 June 2020 amending Annex II to Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH).

### 15.2. Chemical safety assessment

not available

## SECTION 16: Other information

### A list of standard risk phrases used in the safety data sheet

|       |                                         |
|-------|-----------------------------------------|
| H302  | Harmful if swallowed.                   |
| H361d | Suspected of damaging the unborn child. |



# SAFETY DATA SHEET

according to Commission Regulation (EU) 2020/878 as amended

## G12+ koncentrat

|               |                 |         |     |
|---------------|-----------------|---------|-----|
| Creation date | 10th March 2023 | Version | 1.0 |
| Revision date |                 |         |     |

H373 May cause damage to the kidneys through prolonged or repeated exposure.

### Guidelines for safe handling used in the safety data sheet

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 and exposed parts of the body thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.

P301+P312 IF SWALLOWED: Call a doctor if you feel unwell.

P314 Get medical advice/attention if you feel unwell.

P501 Dispose of contents/container to be handed over to the person authorized to dispose of waste or by returning to the supplier.

### Other important information about human health protection

The product must not be - unless specifically approved by the manufacturer/importer - used for purposes other than as per the Section 1. The user is responsible for adherence to all related health protection regulations.

### Key to abbreviations and acronyms used in the safety data sheet

ADR European agreement concerning the international carriage of dangerous goods by road

BCF Bioconcentration Factor

CAS Chemical Abstracts Service

CLP Regulation (EC) No 1272/2008 on classification, labelling and packaging of substance and mixtures

EC Identification code for each substance listed in EINECS

EINECS European Inventory of Existing Commercial Chemical Substances

EmS Emergency plan

EU European Union

EuPCS European Product Categorisation System

IATA International Air Transport Association

IBC International Code For The Construction And Equipment of Ships Carrying Dangerous Chemicals

ICAO International Civil Aviation Organization

IMDG International Maritime Dangerous Goods

IMO International Maritime Organization

INCI International Nomenclature of Cosmetic Ingredients

ISO International Organization for Standardization

IUPAC International Union of Pure and Applied Chemistry

log Kow Octanol-water partition coefficient

OEL Occupational Exposure Limits

PBT Persistent, Bioaccumulative and Toxic

ppm Parts per million

REACH Registration, Evaluation, Authorisation and Restriction of Chemicals

RID Agreement on the transport of dangerous goods by rail

UN Four-figure identification number of the substance or article taken from the UN Model Regulations

UVCB Substances of unknown or variable composition, complex reaction products or biological materials

VOC Volatile organic compounds

vPvB Very Persistent and very Bioaccumulative

Acute Tox. Acute toxicity

Repr. Reproductive toxicity

STOT RE Specific target organ toxicity - repeated exposure

### Training guidelines

Inform the personnel about the recommended ways of use, mandatory protective equipment, first aid and prohibited ways of handling the product.

### Recommended restrictions of use

not available



# SAFETY DATA SHEET

according to Commission Regulation (EU) 2020/878 as amended

## G12+ konzentrat

Creation date

10th March 2023

Revision date

Version

1.0

### Information about data sources used to compile the Safety Data Sheet

REGULATION (EC) No. 1907/2006 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL (REACH) as amended.  
REGULATION (EC) No. 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL as amended. Data from  
the manufacturer of the substance / mixture, if available - information from registration dossiers.

### More information

Classification procedure - calculation method.

### Statement

The safety data sheet provides information aimed at ensuring safety and health protection at work and environmental protection. The provided information corresponds to the current status of knowledge and experience and complies with valid legal regulations. The information should not be understood as guaranteeing the suitability and usability of the product for a particular application.