

Safety Data Sheet

according to Commission Regulation (EU) 2020/878 as amended
Issue date: 11/07/2025. Revision date: 11/07/2025. Version 1.0

**SECTION 1: Identification of the substance/mixture and of the company/
undertaking****1.1. Product identifier**

Product name	COOLANT CONCENTRATE G12 RIDEX PLUS
Product form	Mixture
Product code (UFI)	2AC0-80PF-0002-T6DM
Other mixture names	Antifreeze G12 / G12+ concentrate

1.2. Relevant identified uses of the substance or mixture and uses advised against**Mixture's intended use**

Anti-freeze mixture.

Mixture uses advised against

The product should not be used in ways other than those referred to in Section 1.

1.3. Details of the supplier of the safety data sheet

RIDEX GmbH	Josef-Orlopp-Straße 55 10365 Berlin, Germany	www.ridex.eu info@ridex.de	+49 302 202 72 34
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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

Skin Irrit. 2, H315

Eye Irrit. 2, H319

STOT RE 2, H373 (kidneys)

Most serious adverse effects on human health and the environment

Harmful if swallowed. May cause damage to the kidneys through prolonged or repeated exposure. Causes serious eye irritation.
Causes skin irritation.

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2.2. Label elements**Hazard pictogram****Signal word**

Warning

Hazardous substances

Ethane-1,2-diol

Hazard statements

H302	Harmful if swallowed.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
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.
P260	Do not breathe dust/fume/gas/mist/vapours/spray.
P264	Wash hands and exposed parts of the body thoroughly after handling.
P270	Do not eat, drink, or smoke when using this product.
P280	Wear eye protection.
P501	Dispose of contents/container in accordance with local regulations.

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. The mixture does not contain any substance that meets the criteria for PBT or vPvB in accordance with Annex XIII of Regulation (EC) No. 1907/2006 (REACH) as amended. Does not contain any PMT or vPvM components.

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SECTION 3: Composition/information on ingredients

3.1. 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 CAS: 107-21-1 EC: 203-473-3 Registration number: 01-2119456816-28-xxxx	Ethane-1,2-diol	< 95	Acute Tox. 4, H302 STOT RE 2, H373 (kidneys)	1
CAS: 93918-10-6 EC: 299-890-3	Potassium 3,5,5-trimethylhexanoate	< 3	Acute Tox. 4, H302 Skin Corr. 1B, H314 Eye Dam. 1, H318 STOT SE 3, H335	

Note 1:

A substance for which exposure limits are set.
Full text of all classifications and hazard statements is given in Section 16.

SECTION 4: First-aid measures

4.1. Description of first-aid measures

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

If inhaled	Eliminate exposure immediately; move the affected person to fresh air. Protect the person against growing cold. Provide medical treatment if irritation, dyspnea, or other symptoms persist.
If on skin	Remove contaminated clothes. Wash the affected area with plenty of water, lukewarm if possible. Soap, a 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 required); remove contact lenses immediately if worn by the affected person. Rinsing should last for at least 10 minutes. Provide medical treatment, specialised if possible.
If swallowed	Provide medical treatment.

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

If inhaled	Not expected.
If on skin	Causes skin irritation.
If in eyes	Causes serious eye irritation.
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 be produced. 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 the 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 Sections 7 and 8. Prevent contact with skin and eyes.

6.2. Environmental precautions

Prevent soil contamination and do not allow the product to enter surface or ground water.

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6.3. Methods and material for containment and cleaning up

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

6.4. Reference to other sections

See Sections 7, 8, and 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

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

7.2. Conditions for safe storage, including any incompatibilities

Store in tightly sealed 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.

European Union

Commission Directive 2000/39/EC

Substance name (component)	Type	Value
Ethane-1,2-diol (CAS: 107-21-1)	OEL 8 hours	52 mg/m ³
	OEL 8 hours	20 ppm
	OEL 15 minutes	104 mg/m ³
	OEL 15 minutes	40 ppm

Notes

Skin.

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8.2. Exposure controls

Take off contaminated clothing and wash before reuse. Follow the usual measures intended to protect health at work, especially for good ventilation. This can be achieved only by local suction or efficient general ventilation. Do not eat, drink, or smoke during handling. Wash your hands thoroughly with water and soap after work and before breaks for meals and rest.

Eye and face protection

Protective goggles.

Skin protection

Hand protection:

Protective gloves resistant to the product. When choosing the appropriate thickness, material, and permeability of the gloves, observe the recommendations of their particular manufacturer. Observe other recommendations of the manufacturer.

Other protection:

Protective workwear. Contaminated skin should be washed thoroughly.

Respiratory protection

Use a half mask with a filter against organic vapours or a self-contained breathing apparatus as appropriate if the exposure limit values of substances are exceeded or you are working in a poorly ventilated environment.

Thermal hazard

Not available.

Environmental exposure controls

Observe usual environmental protection measures, see Section 6.2.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	Liquid
Colour	Red
Odour	Data not available
Melting point/freezing point	Data not available
Boiling point or initial boiling point and boiling range	> 170°C
Flammability	Inflammable
Lower and upper explosion limit	Data not available
Flash point	> 111°C
Auto-ignition temperature	> 400°C
Decomposition temperature	Data not available
pH	8–9 (50% solution)
Kinematic viscosity	Data not available
Solubility in water	Data not available
Partition coefficient n-octanol/water (Log K _{ow})	Data not available

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Vapour pressure	Data not available
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Density and relative vapour density

Density	> 1.1 g/cm ³
Relative vapour density	Data not available
Particle characteristics	Data not available
Form	Liquid

9.2. Other information

Not available.

SECTION 10: Stability and reactivity**10.1. Reactivity**

Not available.

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 frost.

10.5. Incompatible materials

Protect against strong acids, bases, and oxidising agents.

10.6. Hazardous decomposition products

Not developed under normal uses. Dangerous products, such as carbon monoxide and carbon dioxide, are formed at high temperatures and in cases of fire.

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SECTION 11: Toxicological information**11.1. Information on hazard classes as defined in Regulation (EC) No. 1272/2008**

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

Acute toxicity	Harmful if swallowed. Data for the components of the mixture are not available.
Skin corrosion/irritation	Causes skin irritation. Data for the components of the mixture are not available.
Serious eye damage/irritation	Causes serious eye irritation. Data for the components of the mixture are not available.
Respiratory or skin sensitisation	No data are available for either the mixture or the components. Based on the available data, the criteria for classification of the mixture are not met.
Germ cell mutagenicity	No data are available for either the mixture or the components. Based on the available data, the criteria for classification of the mixture are not met.
Carcinogenicity	No data are available for either the mixture or the components. Based on the available data, the criteria for classification of the mixture are not met.
Reproductive toxicity	No data are available for either the mixture or the components. Based on the available data, the criteria for classification of the mixture are not met.
STOT-single exposure	No data are available for either the mixture or the components. Based on the available data, the criteria for classification of the mixture are not met.
STOT-repeated exposure	May cause damage to the kidneys through prolonged or repeated exposure. Data for the components of the mixture are not available.
Aspiration hazard	No data are available for either the mixture or the components. Based on the available data, the criteria for classification of the mixture are not met.

11.2. Information on other hazards**Endocrine-disrupting properties**

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.

Other information

Not available.

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SECTION 12: Ecological information**12.1. Toxicity**

No data are available for either the mixture or the components. Based on the available data, the criteria for classification of the mixture are not met.

12.2. Persistence and degradability

No data are available for either the mixture or the components.

12.3. Bioaccumulative potential

No data are available for either the mixture or the components.

12.4. Mobility in soil

No data are available for either the mixture or the components.

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

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 applicable 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 specialised company) that is entitled to carry out these activities. Do not empty unused product into 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 the 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 waste, as amended.

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Waste type code

16 01 14*	Antifreeze fluids containing hazardous substances
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Packaging waste type code

15 01 02	Plastic packaging
15 01 04	Metallic packaging

*: 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

Refer to Sections 4 to 8.

14.7. Maritime transport in bulk according to IMO instruments

Not relevant.

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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

A chemical safety assessment has not been carried out (mixture).

SECTION 16: Other information**A list of standard risk phrases used in the safety data sheet**

H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
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 dust/fume/gas/mist/vapours/spray.
P264	Wash hands and exposed parts of the body thoroughly after handling.
P270	Do not eat, drink, or smoke when using this product.
P280	Wear eye protection.
P501	Dispose of contents/container in accordance with local regulations.

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Other important information about human health protection

Unless specifically approved by the manufacturer/importer, the product must not be used for purposes other than those specified in Section 1. The user is responsible for adherence to all related health protection regulations.

Abbreviations and acronyms:	
Acute Tox.	Acute toxicity
ADR	Agreement concerning the international carriage of dangerous goods by road
BCF	Bioconcentration Factor
CAS	Chemical Abstracts Service
CLP	Regulation (EC) No. 1272/2008 on the classification, labelling, and packaging of substances and mixtures
EC	Identification code for each substance listed in EINECS
Eye Dam.	Serious eye damage
Eye Irrit.	Eye irritation
EINECS	European Inventory of Existing Commercial Chemical Substances
EmS	Emergency Schedules
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 K _{ow}	Octanol-Water Partition Coefficient
OEL	Occupational Exposure Limits
PBT	Persistent Bioaccumulative Toxic
PMT	Persistent Mobile Toxic
ppm	Parts per million
REACH	Registration, Evaluation, Authorisation, and Restriction of Chemicals
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail
Skin Corr.	Skin corrosion
Skin Irrit.	Skin irritation
STOT RE	Specific Target Organ Toxicity - Repeated Exposure
STOT SE	Specific Target Organ Toxicity - Single Exposure

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Abbreviations and acronyms:

UN number	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
vPvM	Very Persistent and Very Mobile

Training guidelines

Inform personnel about the recommendations for use, mandatory protective equipment, first-aid measures, and prohibited methods of handling the product.

Recommended restrictions of use

Not available.

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