SAFETY DATA SHEET

FACTORY EKO

Date of issue: 15.03.2021 Version: 1.0/EN

[In accordance with the criteria of Regulation No 1907/2006 (REACH) as amended]

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

1.1 Product identifier FACTORY EKO 1.2 Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses: antifreeze for installations: cooling, air conditioning, solar, heat pumps and installations in the food industry.

Uses advises against: not determined.

1.3 Details of the supplier of the safety data sheet Manufacturer: **Procold s.c. A.Stasik, M.Szymczak**

Address: Leszczyce 10, 63-200 Jarocin, Poland Telephone: +48 535212727, +48 506291441

E-mail address for a competent person responsible for sds: biuro@procold.pl

1.4 Emergency telephone number

112

Section 2: Hazards identification

2.1 Classification of the substance or mixture

Product is not classified as hazardous for human health and life and for the environment.

2.2 Label elements

Hazard pictograms and signal words

None.

Names of substances mentioned on label

None.

Hazard statements

None.

Precautionary statements

None.

2.3 Other hazards

Components of the product do not meet the criteria of PBT or vPvB substance in accordance with Annex XIII of REACH Regulation.

The product does not contain substances included in the list established in accordance with Article 59(1) for having endocrine disrupting properties, or substances identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 (3) or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0.1% by weight.

Section 3: Composition/information on ingredients

3.1 Substances

Not applicable.

D

f issue: 15.03.2021

Version: 1.0/EN
Version: 1.0/EN

3.1 Mixtures

Product based on propylene glycol. The product contains components classified as hazardous in amounts that do not require inclusion in the product classification.

Section 4: First aid measures

4.1 Description of first aid measures

Skin contact: rinse off contaminated skin thoroughly with water and soap. Take off contaminated clothes. Wash it before next use. Consult a doctor, if disturbing symptoms occur.

Eye contact: remove contact lenses. Rinse contaminated eyes with water for 10-15 minutes with eyelids wide open. Avoid strong stream of water – risk of damage of the cornea. Consult an ophthalmologist if disturbing symptoms occur.

Ingestion: do not induce vomiting. Rinse mouth with water. Never give anything by mouth to an unconscious person. Consult a doctor, show container or label.

Inhalation: remove the victim to fresh air, keep warm and calm. Consult a doctor if disturbing symptoms occur.

4.2 Most important symptoms and effects, both acute and delayed

Skin contact: possible redness, dryness, cracking, defatting. Possible allergic skin reaction in susceptible individuals.
Eye contact: possible redness, tearing, slight irritation.
Ingestion: possible abdominal pains, vomiting, nausea, diarrhoea, decreased concentration.
Inhalation: decreased concentration, headache, dizziness.

4.3 Indication of any immediate medical attention and special treatment needed

Physician makes a decision regarding further medical treatment after thoroughly examination of the injured.

Section 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media: water spray, extinguishing powder, alcohol-resistant foam, CO_2,. Adjust extinguishing media to the surrounding materials.

Unsuitable extinguishing media: water jet – risk of the propagation of the flame.

5.2 Special hazards arising from the substance or mixture

During combustion harmful gases consisting of carbon oxides and other unidentified products of thermal decomposition may be produced. Do not inhale combustion products, it may cause health risk.

5.3 Advice for firefighters

Personal protection typical in case of fire. Do not stay in the fire zone without self-contained breathing apparatus and protective clothing resistant to chemicals. In case of fire cool endangered containers with water spray from safe distance. Collect used extinguishing media.

Section 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Limit the access for the outsiders into the breakdown area, until the suitable cleaning operations are completed. Ensure that only the trained personnel removes the effects of the accident. In case of a large breakdown, isolate the exposed area. Avoid skin and eyes contamination. Ensure adequate ventilation. Avoid breathing vapours. Use personal protective equipment. Do not let the product get into the mouth.

6.2 Environmental precautions

In case of release of large amounts of the product, it is necessary to take appropriate steps to prevent it from spreading into the environment. Notify relevant emergency services. Secure sewers, water and entrance to the basement or confined areas.

6.3 Methods and material for containment and cleaning up

Place damaged containers in a sealed protective packaging. Collect leakage using liquid binding materials (eg. sand, earth, universal binders, silica, vermiculite) and place it in correctly labelled containers. Treat collected material as waste. Clean residues with water.

6.4 Reference to other sections

Appropriate conduct with waste product – see section 13. Personal protection equipment – see section 8.

Section 7: Handling and storage

7.1 Precautions for safe handling

Handle in accordance with good occupational hygiene and safety practices. Do not eat, drink or smoke at the workplace. Avoid skin and eyes contamination. Do not breathe vapours. Ensure adequate ventilation. Wash hands before breaks and after work.

7.2 Conditions for safe storage, including any incompatibilities

Store only in original, tightly closed containers in a cool, dry and well-ventilated rooms. Keep away from food and feed for animals. Containers that are opened should be properly resealed and kept upright to prevent leakage. Do not store with incompatible materials (see subsection 10.5). Recommended storage temperature: 5-30 °C.

7.3 Specific end use(s)

No information about uses other than mentioned in subsection 1.2.

Section 8: Exposure controls/personal protection

8.1 Control parameters

There are no occupational exposure limit values at working place for the substances present in the mixture at the European Union level. Please check any national occupational exposure limit values in your country.

Legal Basis:

Commission Directive 2006/15/EC, 2000/39/EC, 2009/161/EC, 2017/164/EU, 2019/1831/EU.

8.2 Exposure controls

Observe good occupational hygiene and safety practices. Do not eat, drink or smoke when using the product. Before break and after work wash hands carefully. Ensure adequate general and/or local ventilation.

Hand and body protection

Use adequate protective gloves (EN 374) in case of prolonged or direct contact with the product. Recommended material for gloves: nitrile rubber, neoprene. In case of a short contact, use protective gloves with effectiveness level ≥ 2 (breakthrough time > 30 min.). In case of a prolonged contact, use protective gloves with effectiveness level 6 (breakthrough time > 480 min.). Wear protective clothing.

The material that the gloves are made of must be impenetrable and resistant to the product's effects. The selection of material must be performed with consideration of breakthrough time, penetration speed and degradation. Moreover, the selection of proper gloves depends not only on the material, but also on other quality features and changes depending on the manufacturer. The producer should provide detailed information regarding the exact breakthrough time. This information should be followed.

Eye protection

Use protective glasses (EN 166) if there is a risk of eyes contamination.

Respiratory protection

In case of normal and intended use, it is not required. In the event of the formation of vapors, use absorbing or absorbing-filtering equipment of the appropriate protection class.

Thermal hazards Do not occur.

Applied personal protective equipment must comply with the requirements of the Regulation 2016/425/EU. The employer is obliged to provide protective equipment relevant to performed activities and in accordance with all quality requirements, including its maintenance and cleaning.

Environmental exposure controls

Prevent direct release to drains/ surface waters. Do not contaminate surface waters and drainage ditches with chemicals or used containers. Released product or uncontrolled spills to surface waters should be reported to appropriate authorities in accordance with local and national legislations. Dispose as chemical waste, in accordance with local and national legislation.

Section 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state	liquid
Colour	green
Odour	characteristic
Melting point/freezing point	not determined
Boiling point or initial boiling point and boiling range	ca. 188 °C (propylene glycol)
Flammability	not flammable
Lower and upper explosion limit	not determined
Flash point	not determined

Auto-ignition temperature	not determined
Decomposition temperature	not determined
pH	7.5-8.5
Kinematic viscosity	not determined
Solubility	soluble in water
Partition coefficient n-octanol/water (log value)	1.11 – 1.71 (propylene glycol)
Vapour pressure	not determined
Density and/or relative density	1,046 g/cm^3
Relative vapour density	not determined
Particle characteristics	not applicable

9.2 Other information

No additional test results.

Section 10: Stability and reactivity

10.1 Reactivity

Product is feebly reactive. Product does not undergo a dangerous polymerization. See also subsections 10.3 and 10.5

10.2 Chemical stability

The product is stable under normal conditions of handling and storage.

10.3 Possibility of hazardous reactions

Hazardous reactions are not known.

10.4 Conditions to avoid

Not known.

10.5 Incompatible materials

Strong oxidizers.

10.6 Hazardous decomposition products

There are no dangerous decomposition products under normal conditions of handling and storage.

Section 11: Toxicological information

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

Information regarding acute and/or delayed results of the exposure was defined on the basis of the information on product's classification and/or toxicological studies as well as the experience and knowledge of the manufacturer.

Acute toxicity

Based on available data, the classification criteria are not met.

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 sensitization

Based on available data, the classification criteria are not met.

Germ cell mutagenicity

The product does not contain components classified as mutagenic.

Carcinogenicity

The product does not contain components classified as carcinogenic.

Reproductive toxicity

The product does not contain components classified as harmful to reproduction.

STOT-single exposure

Based on available data, the classification criteria are not met.

STOT-repeated exposure

Based on available data, the classification criteria are not met.

Aspiration hazard

Based on available data, the classification criteria are not met.

Information on likely routes of exposure

Routes of exposure: eye contact, skin contact, ingestion, inhalation. For more information – see subsection 4.2.

Symptoms related to the physical, chemical and toxicological characteristics No data.

Delayed and immediate effects as well as chronic effects from short and long-term exposure No data.

11.2. Information on other hazards

Endocrine disrupting properties

The product does not contain substances included in the list established in accordance with Article 59(1) for having endocrine disrupting properties, or substances identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 (3) or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0.1% by weight. Other information

No data.

Section 12: Ecological information

12.1 Toxicity

Product is not classified as hazardous for the aquatic environment.

12.2 Persistence and degradability

Propylene glycol contained in the product is biodegradable in 90% (28 days).

12.3 Bioaccumulative potential

The components contained in the product do not bioaccumulate.

12.4 Mobility in soil

The product is soluble in water. Mobility of components of the mixture in soil depends on the hydrophilic and hydrophobic properties and biotic and abiotic conditions of soil, including its structure, climatic conditions, seasons and soil organisms.

12.5 Results of PBT and vPvB assessment

Not applicable. The product does not contain ingredients, which meet criteria for PBT or vPvB.

12.6 Endocrine disrupting properties

The product does not contain substances included in the list established in accordance with Article 59(1) for having endocrine disrupting properties, or substances identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 (3) or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0.1% by weight.

12.7 Other adverse effects

Product has no influence on global warming and destruction of the ozone layer. Consider other harmful effects of individual components of the mixture on the environment (eg., global warming potential).

Section 13: Disposal considerations

13.1

Waste treatment methods

Disposal methods for the mixture: dispose of in accordance with the local legislation. Store the remains in original packages. Do not empty into sewage system. Waste code should be given in the place of its formation. Recommended waste code: 07 06 99 (wastes not otherwise specified).

Disposal methods for used packing: reuse/recycle/eliminate empty containers in accordance with the local legislation. Only completely empty containers can be reused. Recommended waste code: 15 01 02 (plastic packaging).

Legal basis: Directive 2008/98/EC as amended, 94/62/EC as amended.

Section 14: Transport information

14.1 UN number or ID number

Not applicable. The product is not classified as dangerous during transport.

14.2 UN proper shipping name

Not applicable.

14.3 Transport hazard class(es)

Not applicable.

14.4 Packing group

Not applicable.

14.5 Environmental hazards

The product is not hazardous to environment in accordance with transport regulations. **14.6 Special precautions for user** 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

Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the

Registration, Evaluation, Authorization and Restriction of Chemicals (REACH), establishing a 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 of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006 (Text with EEA relevance) as amended.

Commission Regulation (EU) No 2015/830 of 28 May 2015 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (Text with EEA relevance).

Commission Regulation (EU) No 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).

Directive 2008/98/EC of the European Parliament and of the Council of 19 November 2008 on waste and repealing certain Directives as amended.

European Parliament and Council Directive 94/62/EC of 20 December 1994 on packaging and packaging waste as amended.

Regulation (EU) 2016/425 of the European Parliament and of the Council of 9 March 2016 on personal protective equipment and repealing Council Directive 89/686/EEC (Text with EEA relevance).

Commission Directive 2000/39/EC of 8 June 2000 establishing a first list of indicative occupational exposure limit values

in implementation of Council Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work.

Commission Directive 2006/15/EC of 7 February 2006 establishing a second list of indicative occupational exposure limit values in implementation of Council Directive 98/24/EC and amending Directives 91/322/EEC and 2000/39/EC.

Commission Directive 2009/161/EU of 17 December 2009 establishing a third list of indicative occupational exposure limit values in implementation of Council Directive 98/24/EC and amending Commission Directive 2000/39/EC.

Commission Directive 2017/164/EU of 31 January 2017 establishing a fourth list of indicative occupational exposure limit values pursuant to Council Directive 98/24/EC, and amending Commission Directives 91/322/EEC, 2000/39/EC and 2009/161/EU.

Commission Directive 2019/1831/EU of 24 October 2019 establishing a fifth list of indicative occupational exposure limit values pursuant to Council Directive 98/24/EC and amending Commission Directive 2000/39/EC.

15.2 Chemical safety assessment

It is not necessary to carry out a chemical safety assessment for the mixture.

Section 16: Other information

Abbreviations and acronyms

PBT Persistent, Bioaccumulative and Toxic substance vPvB
very Persistent, very Bioaccumulative substance

Trainings

Before commencing working with the product, the user should learn the Health & Safety regulations, regarding handling chemicals, and in particular, undergo a proper workplace training.

Key literature references and data sources

This SDS was prepared on the basis of sheets of manufacturer's SDS, literature data, online databases as well as our knowledge and experience, taking into account current legislation.

Methods of evaluating information which was used for the purpose of classification

Classification was based on physico-chemical data and data on hazardous substances calculation method under the guidance of Regulation 1272/2008/EC (CLP) as amended.

Additional information

Safety Data Sheet made by: **THETA** Consulting Sp. z o.o.

The information above is based on a current available data concerning the product, but also on the experience and knowledge in this field of the producer. They are neither a quality description of the product nor a guarantee of particular features. They are to be treated as aid to safety in transport, storage and usage of the product. That does not free the user from the responsibility of improper usage of the information above and also of improper compliance with the law norms in the field.