

**DG Cooltreat FA**

according to Regulation (EC) No. 1907/2006, 2020/878

Update: 21. 02. 2022

Version EN: 3.0;

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

**1.1. Product identifier** DG Cooltreat FA

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

Identified uses: Concentrated liquid corrosion inhibitor for engine closed cooling systems

Uses advised against: no information available

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

Duo Ghibli

ul. Światowida 6

71-726 Szczecin

Phone: +48 606 362 590

E-mail address of the person responsible for data sheet: [biuro@dgpc.pl](mailto:biuro@dgpc.pl)

**1.4. Emergency telephone number**

112 (general emergency telephone number), 998 (fire-brigade), 999 (ambulance);

**SECTION 2: Hazards identification**

**2.1. Classification of the substance or mixture**

Acc. to 1272/2008

H361d - Reproductive Toxicity Category 2,

H335 - Specific target organ toxicity - single exposure Category 3 (respiratory tract irritation),

H315 - Skin Corrosion/Irritation Category 2,

H319 - Eye Irritation Category 2

**Human health dangers:**

Harmful if swallowed. Harmful in contact with skin. Harmful if inhaled. Causes severe skin burns and eye damage.

May cause respiratory irritation.

**Environmental hazards:**

None.

**Physic-chemical hazards:**

None.

**2.2. Label elements**

Contain: 2-aminoethanol; Diethylaminoethanol

**Pictograms:**



**Signal Word:** Warning

**Hazard Statement:**

**H361d** Suspected of damaging the unborn child.

**H335** May cause respiratory irritation.

**H315** Causes skin irritation.

**H319** Causes serious eye irritation.

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**Precautionary Statement Prevention:****P201** Obtain special instructions before use.**P271** Use only outdoors or in a well-ventilated area.**P280** Wear protective gloves, protective clothing, eye protection and face protection.**Precautionary Statement Response:****P308+P313** IF exposed or concerned: Get medical advice/ attention.**P305+P351+P338** IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.**P312** Call a POISON CENTER/doctor/physician/first aider/if you feel unwell.**Precautionary Statement Storage:****P405** Store locked up.**P403+P233** Store in a well-ventilated place. Keep container tightly closed.**Precautionary Statement Disposal:****P501** Dispose of contents/container to authorised hazardous or special waste collection point in accordance with any local regulation.**2.3. Other hazards**

Annex XIII - Criteria for the identification of Persistent, Bioaccumulative and Toxic substances (BBT), and very Persistent and very Bioaccumulative substances (vPvB) - not applicable

Substances with endocrine disrupting properties (in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100(3) or Commission Regulation (EU) 2018/605) – not applicable

**SECTION 3: Composition/information on ingredients****3.1. Substances**

Not applicable.

**3.2. Mixtures**

Hazardous components:

Substance name	contains %	Hazard Class and Category Code(s)	Hazard Statement Code(s) Suppl. Hazard statement Code(s)
2-ethylhexanoic acid, sodium salt CAS No.: 19766-89-3 EC No.: 243-283-8 406-150-7 Index No.: - REACH No.: -	20 – 30	Skin Corrosion/Irritation Category 2, Eye Irritation Category 2, Reproductive Toxicity Category 2, Specific target organ toxicity - single exposure Category 3 (respiratory tract irritation);	H315 H319 H361d H335
Methyl-1H-benzotriazol CAS No.: 29385-43-1 EC No.: 249-596-6 Index No.: - REACH No.: 01-2119979081-35-XXXX	0,5-1,0	Acute Toxicity (Oral) Category 4, Eye Irritation Category 2, Chronic Aquatic Hazard Category 3;	H302 H319 H412

Full text of H-phrases in Section 16

\*Substance for which workplace exposure limits are available

**SECTION 4: First aid measures****4.1. Description of first aid measures**

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### **Skin contact:**

Remove contaminated clothing, wash immediately affected skin with soap and water, rinse thoroughly with water, in case of irritation, consult a doctor.

### **Eye contact:**

Rinse for several minutes (about 15) with plenty of water, holding eyelids apart. Avoid strong stream, due to the risk of corneal damage, contact your doctor.

### **Inhalation:**

Remove to fresh air and keep comfortable for breathing. If symptoms persist, call a physician.

### **Ingestion:**

If the injured person is fully conscious, give him/her a couple of glasses of milk or water immediately. **DO NOT INDUCE VOMITING!** Consult a physician.

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

Skin contact: Causes severe skin burns and eye damage.

Eye contact: Causes serious eye damage.

Respiratory: May cause respiratory irritation, cough, shortness of breath, difficulty breathing.

Gastrointestinal tract: Ingestion may cause irritation of the mucous membranes of mouth, gastrointestinal tract, abdominal pain, stomach cramps, nausea, vomiting, diarrhea, headaches and dizziness - symptoms of food poisoning

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

The decision about how to conduct the physician.

## **SECTION 5: Firefighting measures**

### **5.1. Extinguishing media**

**Suitable extinguishing media:** foam, dry powder extinguishers, CO<sub>2</sub>, water spray. Use appropriate extinguishing method for conditions.

**Unsuitable extinguishing media:** Water with full jet

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

Thermal decomposition products: carbon dioxide (CO<sub>2</sub>), other pyrolysis products typical of burning organic material. May emit corrosive fumes.

### **5.3. Advice for firefighters**

Cool containers with water spray, if possible remove from the danger zone. In the event of a fire in a confined space should wear protective clothing and breathing apparatus with compressed air. Do not allow fire-fighting water run-off into surface water, groundwater and sewer.

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

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

*For non-emergency personnel:* Notify the appropriate service. Reduce access to the area of failure until the relevant cleaning operations have been completed. Avoid contact with the released product.

*For emergency responders:* Ensure adequate ventilation. Use personal protective equipment (according to section 8).

### **6.2. Environmental precautions**

Do not allow this product to enter drains, sewers or watercourses.

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

Prevent leakage and absorb with inert, absorbent material (such as sand, earth, vermiculite, diatomaceous earth, etc.). The contaminated material is placed in properly labeled containers for disposal in accordance with applicable regulations.

### **6.4. Reference to other sections**

Refer to protective measures listed in section 8.

Refer to disposal considerations listed in section 13.

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**SECTION 7: Handling and storage****7.1. Precautions for safe handling**

Use only outdoors or in a well-ventilated area. Avoid contact with eyes. Avoid prolonged or repeated contact with skin. Avoid breathing vapors. Work in accordance with the principles of safety and hygiene: Do not eat, drink and smoke at work, wash your hands after use, remove contaminated clothing and protective equipment before entering places for meals. Follow the instructions provided on the label and instructions for use.

**7.2 Conditions for safe storage, including any incompatibilities:**

Store in a cool, dry, well ventilated place in properly labeled and tightly closed original container. Avoid direct sunlight and heat sources, hot surfaces and open flames. Store away from strong strong acids, acid chlorides, acid anhydrides and chloroformates.

**7.3. Specific end use(s)**

See section 1.2. - no additional recommendations

**SECTION 8: Exposure controls/personal protection****8.1. Control parameters**

Occupational exposure limit values:

Ingredient	DNELs Exposure Pattern Worker	PNECs Compartment
<b>2-ethylhexanoic, acid, sodium salt</b>	Dermal 2 mg/kg bw/day (Systemic, Chronic) Inhalation 14 mg/m <sup>3</sup> (Systemic, Chronic) Dermal 1 mg/kg bw/day (Systemic, Chronic) Inhalation 3.5 mg/m <sup>3</sup> (Systemic, Chronic) Oral 1 mg/kg bw/day (Systemic, Chronic)	0.36 mg/L (Water (Fresh)) 0.036 mg/L (Water - Intermittent release) 0.493 mg/L (Water (Marine)) 0.301 mg/kg sediment dw (Sediment (Fresh Water)) 0.03 mg/kg sediment dw (Sediment (Marine)) 0.058 mg/kg soil dw (Soil) 71.7 mg/L (STP)
<b>Methyl-1H-benzotriazol</b>	Dermal 0.5 mg/kg bw/day (Systemic, Chronic) Inhalation 8.8 mg/m <sup>3</sup> (Systemic, Chronic) Dermal 0.25 mg/kg bw/day (Systemic, Chronic) Inhalation 4.4 mg/m <sup>3</sup> (Systemic, Chronic) Oral 0.25 mg/kg bw/day (Systemic, Chronic) Oral 0.25 mg/kg bw/day (Systemic, Acute)	0.008 mg/L (Water (Fresh)) 0.008 mg/L (Water - Intermittent release) 0.086 mg/L (Water (Marine)) 0.003 mg/kg sediment dw (Sediment (Fresh Water)) 0.003 mg/kg sediment dw (Sediment (Marine)) 0.002 mg/kg soil dw (Soil) 39.4 mg/L (STP)

**8.2. Exposure controls****Engineering controls:**

General ventilation is recommended.

Observe occupational health and safety.

Wash hands during breaks and after working with the product.

Do not eat, drink or smoke while handling the product.

Take off contaminated clothing and wash it before reuse.

**Individual protection measures, such as personal protective equipment:**

Personal protective equipment should be selected according to the hazards present at the workplace, taking into account Regulation (EU) 2016/425 of the European Parliament and of the Council and in accordance with the relevant CEN standards.

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**Eye protection:**

Safety goggles (EN 166).

**Skin protection:**

*Hands:*

Appropriate chemical resistant gloves (EN 374)

Recommended material: nitrile rubber

Thickness:

Time of penetration:

The selection of suitable gloves does not only depend on the material, but also on the brand and quality resulting from differences in manufacturers. Resistance of the material, the glove can be determined after the tests. The exact time of the destruction of the protective gloves must be determined by the manufacturer.

*Other:*

Wear protective clothing.

**Respiratory Protection:**

Use individual respiratory protection means, a mask or a half-mask complete with filter P3.

**Thermal hazards:**

Not applicable.

**Environmental exposure controls:**

Prevent the spread in the environment and enter drains and watercourses.

**SECTION 9: Physical and chemical properties**
**9.1. Information on basic physical and chemical properties**

a)	Physical state	Liquid
b)	Colour	Colourless
c)	Odour	Characteristic
d)	Melting point/freezing point (Does not apply to gases)	No date available
e)	Boiling point or initial boiling point and boiling range	No date available
f)	Flammability (Applies to gases, liquids and solids)	Not flammable
g)	Lower and upper explosion limit (Do not apply to solids)	No date available
h)	Flash point (Does not apply to gases, aerosols and solids)	No date available
i)	Auto-ignition temperature (Only applies to gases and liquids)	Not self-igniting
j)	Decomposition temperature (Only applies to self-reactive substances and mixtures, organic peroxides, and other substances and mixtures that may decompose)	Not applicable
k)	pH (Does not apply to gases)	9,0
l)	Kinematic viscosity (Only applies to liquids)	No date available

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m)	Solubility in water	Miscible
n)	Partition coefficient n-octanol/water (log value)	Not applicable - mixture
o)	Vapour pressure	No date available
p)	Density and/or relative density (Only apply to liquids and solids)	1,05 g/cm <sup>3</sup>
q)	Relative vapour density (Only applies to gases and liquids)	No date available
r)	Particle characteristics (Only apply to solids)	Not applicable

**9.2. Other information**

None.

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

No information available.

**10.2. Chemical stability**

Stable under normal conditions of use, storage and transport.

**10.3. Possibility of hazardous reactions**

Avoid strong acids, acid chlorides, acid anhydrides and chloroformates.

Avoid contact with copper, aluminum and their alloys.

Avoid reaction with oxidizing agents.

**10.4. Conditions to avoid**

Avoid direct sunlight, heat, open flames, hot surfaces.

**10.5. Incompatible materials**

Avoid contact with strong oxidizing agents and acids

**10.6 Hazardous decomposition product**

No decomposition under recommended conditions of use and storage.

Toxic decomposition products – see Section 5.

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

a)	Acute toxicity	Based on the available data, the classification criteria are not met.
b)	Skin corrosion/irritation	Causes skin irritation.
c)	Serious eye damage/irritation	Causes serious eye irritation.
d)	Respiratory or skin sensitization	May cause respiratory irritation.
e)	Germ cell mutagenicity	Based on the available data, the classification criteria are not met
f)	Carcinogenicity	Based on the available data, the classification criteria are not met

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g)	Reproductive toxicity	Suspected of damaging the unborn child.
h)	STOT-single exposure	May cause respiratory irritation.
i)	STOT-repeated exposure	Based on the available data, the classification criteria are not met
j)	Aspiration hazard	Based on the available data, the classification criteria are not met

2-ethylhexanoic acid,sodium salt

dermal (rat) LD50: &gt;2000 mg/kg

Oral(Rat) LD50; 2043 mg/kg

Methyl-1H-benzotriazol

Dermal (rabbit) LD50: &gt;2000 mg/kg

Oral(Rat) LD50; 1470 mg/kg]

Oral(Rat) LD50; 675 mg/kg[2]

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

None.

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

Mixture is not classified as dangerous for environmental.

Prevent the spread in the environment and enter drains and watercourses.

2-ethylhexanoic acid,sodium salt

EC50 (Algae or other aquatic plants): 43,9 mg/l, 72h

EC50 (Fish): 100 mg/l, 96h

EC50 (Crustacea): 85,4 mg/l, 48h

NOEC(ECx (Oryzias latipes): 1,2mg/l, 30days

NOEC (Crustacea): 18 mg/l, 504h

Methyl-1H-benzotriazol

LC50 (Algae or other aquatic plants): 29mg/L, 72h

EC50 (Fish): 46mg/l, 96h

EC50 (Crustacea): 8,58mg/l, 48h

EC10(ECx) (Crustacea): 0,4mg/l, 504h

**12.2. Persistence and degradability**

For mixture: no information available

**12.3. Bioaccumulative potential**

For mixture: no information available

**12.4. Mobility in soil**

For mixture: no information available

**12.5. Results of PBT and vPvB assessment**

Mixture has no substances that meet the criteria for classification as PBT or vPvB in accordance with Annex XIII of REACH.

**12.6. Endocrine disrupting properties**

Mixture has no substances with endocrine disrupting properties.

**12.7. Other adverse effects**

No information available.

**SECTION 13: Disposal considerations****13.1. Waste treatment methods**



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Recommendations for the product: Dispose of in accordance with local regulations. Store in original containers. Waste code should be given at the place of manufacture.

Recommendations for used packaging: Recycle / recycle / dispose of packaging waste in accordance with applicable regulations. Only fully emptied packaging can be recycled.

**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**

**SECTION 14: Transport information**

ADR/RID/IMDG/IATA:

**14.1. UN number**

Not applicable, the product is not classified as dangerous in transport

**14.2. UN proper shipping name**

Not applicable, the product is not classified as dangerous in transport

**14.3. Transport hazard class(es)**

Not applicable, the product is not classified as dangerous in transport

**14.4. Packing group**

Not applicable, the product is not classified as dangerous in transport

**14.5. Environmental hazards**

Not applicable, the product is not classified as dangerous in transport

**14.6 Special precautions for user**

Not applicable, the product is not classified as dangerous in transport

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

Not applicable, the product is not classified as dangerous in transport

**SECTION 15: Regulatory information****15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****EU REGULATIONS:**

1. Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation 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.
2. 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)
3. 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 as amended.
4. 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
5. 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
6. 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
7. 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
8. Commission Directive (EU) 2017/164 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



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9. Commission Directive (EU) 2019/1831 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
10. Directive 2008/98/EC Of The European Parliament And Of The Council of 19 November 2008 on waste and repealing certain Directives as amended
11. European Parliament and Council Directive 94/62/EC of 20 December 1994 on packaging and packaging waste as amended

**15.2. Chemical safety assessment**

No chemical safety assessments for the mixture.

- List of substances subject to authorization (REACH; Annex XIV): not applicable
- Candidate list of SVHCs: not applicable
- Restrictions on the manufacture, placing on the market and use of certain dangerous substances, preparations and articles (REACH; Annex XVII): not applicable

**SECTION 16: Other information****Abbreviations and acronyms, list of hazard statements used in the safety data sheet:**

**H226** – Flammable liquid and vapour

**H302** – Harmful if swallowed

**H311** – Toxic in contact with skin.

**H312** – Harmful in contact with skin.

**H314** – Causes severe skin burns and eye damage

**H318** – Causes serious eye damage

**H331** – Toxic if inhaled.

**H332** – Harmful if inhaled.

**H335** – May cause respiratory irritation.

**H412** – Harmful to aquatic life with long lasting effects

**Flam. Liq. 3** – Flammable liquid, cat. 3

**Acute Tox. 3** – Acute toxicity cat. 3

**Acute Tox. 4** – Acute toxicity cat. 4

**Skin Corr. 1B** – Skin corrosion cat. 1B

**Eye Dam.1** – Serious eye damage cat. 1

**STOT SE 3** – Specific target organ toxicity — single exposure cat. 3

**Aquatic Chronic 3** – Hazardous to the aquatic environment cat. 3

**LD50** – lethal dose, 50%

**LC50** – lethal concentration, 50%

**EC50** – effective concentration, 50%

**NOEC** – no observed effects concentration

**PBT** – Persistent, Bioaccumulative and Toxic

**vPvB** – very Persistent and very Bioaccumulative

**ADR** – European Agreement concerning the International Carriage of Dangerous Goods by Road

**RID** – Regulation Concerning the International Transport of Dangerous Goods by Rail

**IMDG** – International Maritime Code for Dangerous Goods

**IATA** – International Air Transport Association

**Classification procedure:**

Acute Tox. 4; H302	Based on the content of the ingredients (calculation method)
Acute Tox. 4; H312	Based on the content of the ingredients (calculation method)
Acute Tox. 4; H332	Based on the content of the ingredients (calculation method)
Skin Corr. 1B; H314	Based on the content of the ingredients (calculation method)
Eye Dam. 1; H318	Based on the content of the ingredients (calculation method)
STOT SE 3; H335	Based on the content of the ingredients (calculation method)

**Changes to the previous version**

Section	Changes
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Section 2, 3, 9, 11, 12, 14	Change in accordance with Reg. 2020/878
Section 15	Change of regulations

### Training:

Before working with the product is recommended safety training of employees in connection with the occurrence of workplace chemicals. Documentation should be prepared and employees should be familiarized with the results of risk assessment in the workplace associated with the presence of chemical agents.

### RESOURCES

Annex to Regulation (EU) 2020/878.

Current legislation (Section 15).

Information Agency for Chemical Substances.

*The information contained in this data sheet is based on present scientific and technical knowledge. The purpose of this information is to draw attention to the health and safety aspects concerning the products supplied by producer and to recommend precautionary measures for the storage and handling of the products. No warranty or guarantee is given in respect of the properties of the products. No liability can be accepted for any failure to observe the precautionary measures described in this data sheet or for any misuse of the products.*