

SAFETY DATA SHEET

according to Regulation (EC) No 1907/2006, as retained and amended in UK law [UK REACH]

Revision date: 29/9/2023
Version: 5.0
Replaces version: 4.0
Language: en-GB
Date of print: 4/12/2023

HTFP Foodgrade Additive

Material number E701186x

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

1.1 Product identifier

Trade name: HTFP Foodgrade Additive

This safety data sheet pertains to the following products:

E7011860: 2 L

E7011862: 8 L

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

General use: Heat transfer fluids
Industrial use
Professional uses / Public domain

1.3 Details of the supplier of the safety data sheet

Company name: Lauda Dr. R. Wobser GmbH & Co. KG

Street/POB-No.: Laudaplatz 1

Postal Code, city: 97922 Lauda-Königshofen

Germany

WWW: www.lauda.de

E-mail: info@lauda.de

Telephone: +49 (0)9343-503-0

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Department responsible for information:

Department Quality Management,

Telephone: +49 9343 503-331, e-mail info@lauda.de

1.4 Emergency telephone number

National Poisons Information Service (Birmingham Unit)

Telephone: 844 892 0111

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to EC regulation 1272/2008 (CLP)

This mixture is classified as not hazardous.

2.2 Label elements

Labelling (CLP)

Hazard statements: not applicable

Precautionary statements: not applicable

2.3 Other hazards

No risks worthy of mention.

Endocrine disrupting properties, Results of PBT and vPvB assessment:

No data available

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SECTION 3: Composition/information on ingredients

3.1 Substances: not applicable

3.2 Mixtures

Chemical characterisation: Monopropylene glycole (Propane-1,2-diol), with corrosion inhibitors
Contains: 3,5,5-Trimethylhexanoic acid, Sodium benzoate, Sodium hydroxide

SECTION 4: First aid measures

4.1 Description of first aid measures

General information: Take off immediately all contaminated clothing. Get medical advice/attention if you feel unwell.
In case of inhalation: Provide fresh air. Seek medical treatment in case of troubles.
Following skin contact: Remove residues with water. In case of skin reactions, consult a physician.
After eye contact: Immediately flush eyes with plenty of flowing water for 10 to 15 minutes holding eyelids apart. Remove contact lenses, if present and easy to do. Continue rinsing. Consult an eye specialist in the event of irritation.
After swallowing: Rinse mouth thoroughly with water. Never give anything by mouth to an unconscious person. Do not induce vomiting. Immediately get medical attention.

4.2 Most important symptoms and effects, both acute and delayed

No data 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 jet, alcohol resistant foam, extinguishing powder, carbon dioxide

Extinguishing media which must not be used for safety reasons:

Full water jet

5.2 Special hazards arising from the substance or mixture

Flammable liquid.
In case of fire may be liberated: carbon monoxide and carbon dioxide

5.3 Advice for firefighters

Special protective equipment for firefighters:

Wear a self-contained breathing apparatus and chemical protective clothing.

Additional information:

Hazchem-Code: -

Do not allow fire water to penetrate into surface or ground water.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Provide adequate ventilation. Avoid contact with skin and eyes. Avoid breathing vapours.

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6.2 Environmental precautions

Do not allow to enter into ground-water, surface water or drains.

6.3 Methods and material for containment and cleaning up

Soak up with absorbent materials such as sand, siliceous earth, acid- or universal binder. Store in special closed containers and dispose of according to ordinance.

Additional information: Special danger of slipping by leaking/spilling product.

6.4 Reference to other sections

Refer additionally to section 8 and 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advices on safe handling: Provide adequate ventilation, and local exhaust as needed.
Avoid contact with skin and eyes. Avoid breathing vapours.
Wear appropriate protective equipment. Wash hands before breaks and after work.
Take off contaminated clothing and wash it before reuse.

Precautions against fire and explosion: Keep away from sources of ignition. Take precautionary measures against static discharges.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storerooms and containers: Keep container tightly closed in a cool, well-ventilated place.
Hints on joint storage: Keep away from food, drink and animal feedingstuffs.
Keep away from oxidizing agents. Do not store together with strong alkalis.
Further details: Product is hygroscopic.

7.3 Specific end use(s)

No information available.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limit values:

CAS No.	Designation	Type	Limit value
57-55-6	Propane-1,2-diol	Great Britain: WEL-TWA	10 mg/m ³ (particulates)
		Great Britain: WEL-TWA	474 mg/m ³ ; 150 ppm (total dust)
1310-73-2	Sodium hydroxide	Great Britain: WEL-STEL	2 mg/m ³

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DNEL/DMEL:

Information about Monopropylene glycole (CAS No. 57-55-6):
 DNEL workers, long-term, systemic, inhalative: 168 mg/m³
 DNEL workers, long-term, local, inhalative: 10 mg/m³
 DNEL consumers, long-term, systemic, dermal: 213 mg/kg bw/d
 DNEL consumers, long-term, systemic, inhalative: 50 mg/m³
 DNEL consumers, long-term, local, inhalative: 10 mg/m³
 DNEL consumers, long-term, systemic, oral: 85 mg/kg bw/d

Information about 3,5,5-Trimethylhexanoic acid (CAS No. 3302-10-1):
 DNEL workers, long-term, systemic, dermal: 2 mg/kg bw/d
 DNEL workers, long-term, systemic, inhalative: 7 mg/m³
 DNEL consumers, long-term, systemic, dermal: 1 mg/kg bw/d
 DNEL consumers, long-term, systemic, inhalative: 2 mg/m³
 DNEL consumers, long-term, systemic, oral: 1 mg/kg bw/d

Information about Sodium benzoate (CAS No. 532-32-1):
 DNEL workers, long-term, systemic, dermal: 62.5 mg/kg bw/d
 DNEL workers, long-term, systemic, inhalative: 3 mg/m³
 DNEL workers, long-term, local, inhalative: 0.1 mg/m³
 DNEL consumers, long-term, systemic, dermal: 31.25 mg/kg bw/d
 DNEL consumers, long-term, systemic, inhalative: 1.5 mg/m³
 DNEL consumers, long-term, local, inhalative: 0.06 mg/m³
 DNEL consumers, long-term, systemic, oral: 16.6 mg/kg bw/d

Information about Sodium hydroxide (CAS No. 1310-73-2):
 DNEL workers, long-term, systemic, inhalative: 1 mg/m³
 DNEL consumers, long-term, systemic, inhalative: 1 mg/m³

PNEC:

Information about Monopropylene glycole (CAS No. 57-55-6):
 PNEC water (freshwater): 260 mg/L
 PNEC water (marine water): 26 mg/L
 PNEC water (intermittent release): 183 mg/L
 PNEC sewage treatment plant: 20,000 mg/L
 PNEC sediment (freshwater): 572 mg/kg dw
 PNEC sediment (marine water): 57.2 mg/kg dw
 PNEC soil: 50 mg/kg dw

Information about 3,5,5-Trimethylhexanoic acid (CAS No. 3302-10-1):
 PNEC water (freshwater): 0.068 mg/L
 PNEC water (marine water): 0.0068 mg/L
 PNEC water (intermittent release): 1.36 mg/L
 PNEC sewage treatment plant: 23 mg/L
 PNEC sediment (freshwater): 0.904 mg/kg dw
 PNEC sediment (marine water): 0.0904 mg/kg dw
 PNEC soil: 0.141 mg/kg dw

Information about Sodium benzoate (CAS No. 532-32-1):
 PNEC water (freshwater): 0.13 mg/L
 PNEC water (marine water): 0.013 mg/L
 PNEC water (intermittent release): 305 µg/L
 PNEC sewage treatment plant: 10 mg/L
 PNEC sediment (freshwater): 1.76 mg/kg dw
 PNEC sediment (marine water): 0.176 mg/kg dw
 PNEC soil: 0.276 mg/kg dw
 PNEC oral: 300 mg/kg

8.2 Exposure controls

When aerosols and vapours form: Withdraw by suction.

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Personal protection equipment

Occupational exposure controls

Respiratory protection:	When aerosols and vapours form: Use filter type A (= against vapours of organic substances) according to BS EN 14387. Observe the wear time limits according GefStoffV in combination with the rules for using respiratory protection apparatus (BGR 190).
Hand protection:	Protective gloves according to BS EN 374. Glove material: Butyl caoutchouc (butyl rubber) - Layer thickness 0.7 mm Breakthrough time: 480 min Observe glove manufacturer's instructions concerning penetrability and breakthrough time.
Eye protection:	Tightly sealed goggles according to BS EN ISO 16321-1:2022.
Body protection:	Wear suitable protective clothing.
General protection and hygiene measures:	Avoid contact with skin and eyes. Avoid breathing vapours. Take off immediately all contaminated clothing. When using do not eat or drink. Wash hands before breaks and after work.

Environmental exposure controls

Refer to "6.2 Environmental precautions".

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance:	Physical state at 20 °C and 101.3 kPa: liquid Colour: blue
Odour:	slightly perceptible
Odour threshold:	No data available
pH:	at 20 °C, 100 g/L: approx. 9 (DIN 19268)
Melting point/freezing point:	approx. -51.5 °C (DIN 51583)
Initial boiling point and boiling range:	approx. 121 °C (ASTM D 1120)
Flash point/flash point range:	> 200 °C (ASTM D 6450 (c.c.))
Evaporation rate:	not determined
Flammability:	No data available
Explosion limits:	LEL (Lower Explosion Limit): not determined UEL (Upper Explosive Limit): not determined
Vapour pressure:	at 20 °C: <= 0.01 kPa (DIN 51757)
Vapour density:	not determined
Density:	at 20 °C: 1.0591 g/mL
Water solubility:	at 20 °C: completely miscible
Partition coefficient: n-octanol/water:	not determined
Auto-ignition temperature:	> 450 °C (DIN 51794)
Decomposition temperature:	> 240 °C (DSC)
Viscosity, kinematic:	at 20 °C: 49 mm ² /s (DIN 51562)
Explosive properties:	not explosive (Data obtained by expert judgement.)
Oxidizing characteristics:	not oxidising (Data obtained by expert judgement.)

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9.2 Other information

Additional information: No data available

SECTION 10: Stability and reactivity

10.1 Reactivity

refer to 10.3

10.2 Chemical stability

Product is hygroscopic. Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions

Reactions with strong alkalis.
Incompatible with oxidizing agents.

10.4 Conditions to avoid

No data available

10.5 Incompatible materials

Strong alkalis, oxidizing agents

10.6 Hazardous decomposition products

No hazardous decomposition products when regulations for storage and handling are observed.

Thermal decomposition: > 240 °C (DSC)

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity: ATEmix : > 2000 mg/kg (calculation method)

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Toxicological effects: The statements are derived from the properties of the single components. No toxicological data is available for the product as such.

Acute toxicity (oral): Based on available data, the classification criteria are not met.

Acute toxicity (dermal): Lack of data.

Acute toxicity (inhalative): Lack of data.

Skin corrosion/irritation: Lack of data.

Serious eye damage/irritation: Lack of data.

Sensitisation to the respiratory tract: Lack of data.

Skin sensitisation: Lack of data.

Germ cell mutagenicity/Genotoxicity: Lack of data.

Carcinogenicity: Lack of data.

Reproductive toxicity: Lack of data.

Effects on or via lactation: Lack of data.

Specific target organ toxicity (single exposure): Lack of data.

Specific target organ toxicity (repeated exposure): Lack of data.

Aspiration hazard: Lack of data.

SECTION 12: Ecological information

12.1 Toxicity

Further details: No data available

12.2 Persistence and degradability

Further details: Biodegradability: 99 %/2d (OECD 302B)
(Data apply to the main component.)

12.3 Bioaccumulative potential

Partition coefficient: n-octanol/water:
not determined

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

No data available

12.6 Other adverse effects

General information: Do not allow to enter into ground-water, surface water or drains.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product

Waste key number: 13 03 08* = Synthetic insulating and heat transmission oils
* = Evidence for disposal must be provided.

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Recommendation: Special waste. Dispose of waste according to applicable legislation.

Package

Recommendation: Dispose of waste according to applicable legislation. Handle contaminated packages in the same way as the substance itself.
Non-contaminated packages may be recycled.

SECTION 14: Transport information

14.1 UN number

ADR/RID, IMDG, IATA-DGR: not applicable

14.2 UN proper shipping name

ADR/RID, IMDG, IATA-DGR: Not restricted

14.3 Transport hazard class(es)

ADR/RID, IMDG, IATA-DGR: not applicable

14.4 Packing group

ADR/RID, IMDG, IATA-DGR: not applicable

14.5 Environmental hazards

Marine pollutant: no

14.6 Special precautions for user

No dangerous good in sense of these transport regulations.

14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

No data available

SECTION 15: Regulatory information

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

National regulations - Great Britain

Hazchem-Code: -
No data available

Further regulations, limitations and legal requirements

Observe employment restrictions for young people.
Observe employment restrictions for expectant or nursing mothers.

15.2 Chemical Safety Assessment

For this mixture a chemical safety assessment is not required.

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SECTION 16: Other information

Further information

Abbreviations and acronyms: ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road
AS/NZS: Australian Standards/New Zealand Standards
CAS: Chemical Abstracts Service
CFR: Code of Federal Regulations
CLP: Classification, Labelling and Packaging
DMEL: Derived minimal effect level
DNEL: Derived no-effect level
EC: European Community
EN: European Standard
EQ: Excepted quantities
IATA: International Air Transport Association
IATA-DGR: International Air Transport Association – Dangerous Goods Regulations
IBC Code: International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk
IMDG Code: International Maritime Dangerous Goods Code
LEL: Lower Explosion Limit
MARPOL: Maritime Pollution: The International Convention for the Prevention of Pollution from Ships
OSHA: Occupational Safety and Health Administration
PBT: Persistent, bioaccumulative and toxic
PNEC: Predicted no-effect concentration
RID: Regulations Concerning the International Carriage of Dangerous Goods by Rail
TRGS: Technical Rules for Hazardous Substances
vPvB: Very persistent and very bioaccumulative

Reason of change: Changes in section 1: Product identifier

Date of first version: 23/3/2018

Department issuing data sheet

Contact person: see section 1: Department responsible for information

The information in this data sheet has been established to our best knowledge and was up-to-date at time of revision. It does not represent a guarantee for the properties of the product described in terms of the legal warranty regulations.