

SAFETY DATA SHEET

According to Regulation (EC) No. 1907/2006 (REACH) Article 31, Annex II as amended.

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

1.1 Product identifier

Product name: OPTA COOL 700 S | 5-L-GEBINDE

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

Identified uses: Coolant/ Cutting solution

Uses advised against: No uses advised against identified.

1.3 Details of the supplier of the safety data sheet

Manufacturer / Supplier FUCHS WISURA GmbH

Am Gaswerk 2 – 10 28197 Bremen

Telephone: +49 (0)421 54903-0 Fax: +49 (0)421 54903-25

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1.4 Emergency telephone number: +49 (0)421 54903-0

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

The product has been classified and labelled as hazardous according to regulation (EU) 1272/2008 (CLP).

Classification according to Regulation (EC) No 1272/2008 as amended.

Health Hazards

Skin irritation Category 2 H315: Causes skin irritation.

Serious eye irritation Category 2 H319: Causes serious eye irritation.

Hazard summary

Physical Hazards: No data available.

2.2 Label Elements

Issue Date: 30.10.2013 Revision Date: 11.06.2018 Print date: 16.06.2018

SDS_DE - EN - 000000000600847906

Version: 2.2



2/11

Product name: OPTA COOL 700 S | 5-L-GEBINDE



Signal Words: Warning

Hazard Statement(s): H315: Causes skin irritation.

H319: Causes serious eye irritation.

Precautionary Statements

General information: P102: Keep out of reach of children.

Prevention: P262: Do not get in eyes, on skin, or on clothing.

2.3 Other hazards: By handling of mineral oil products and chemical products no particular

hazard is known when normal precautions (item 7) and personal protective

equipment (item 8) are kept. The product may not be released into the

environment without control.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

General information: Mineral oil free mixture of corrosion preventive agents and glycols. This

product is applied only as solution or emulsion in water.

Chemical name	Identifier		REACH Registration No.	Notes
acid, ionic equilibrium with organic bases	Neutralisation product (*)	10,00 - <20,00%		
prim. alkanolamine, ionic equilibrium with acids	Neutralisation product (*)	1,00 - <5,00%		
Boric acid	EINECS: 233-139-2	0,10 - <5,40%	01-2119486683-25	**

^{*} All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

Classification

Chemical name	Identifier	Classi	Classification	
acid, ionic equilibrium with organic bases	Neutralisation product (*)	CLP:	Eye Irrit. 2;H319, Skin Irrit. 2;H315	
prim. alkanolamine, ionic equilibrium with acids	Neutralisation product (*)		Acute Tox. 4;H302, Acute Tox. 4;H312, Acute Tox. 4;H332, Aquatic Chronic 3;H412, Eye Irrit. 2;H319, Skin Irrit. 2;H315	
Boric acid	EINECS: 233-139-2	CLP:	Repr. 1B;H360FD	

CLP: Regulation No. 1272/2008.

SDS_DE - EN - 000000000600847906

For the wording of the listed hazard statements refer to section 16.

Issue Date: 30.10.2013 Revision Date: 11.06.2018

Version: 2.2 Print date: 16.06.2018

PBT: persistent, bioaccumulative and toxic substance.

vPvB: very persistent and very bioaccumulative substance.

^{**} Regulation (EC) No. 1907/2006, REACH Article 59(1). Candidate List

^(*) Neutralisation product: Equilibrium of Ionic Pairs in aequous solution according to REACH Annex V, 4.



SECTION 4: First aid measures

General: Instantly remove any clothing soiled by the product.

4.1 Description of first aid measures

Inhalation: Supply fresh air; consult doctor in case of symptoms.

Eye contact: Immediately flush with plenty of water for at least 15 minutes. If easy to do,

remove contact lenses. Get medical attention.

Skin Contact: Immediately flush with plenty of water for at least 15 minutes while

removing contaminated clothing and shoes. Wash contaminated clothing

before reuse. Get medical attention.

Ingestion: Rinse mouth. Call a POISON CENTRE/doctor if you feel unwell.

4.2 Most important symptoms and effects, both acute and

delayed:

Causes serious eye irritation. Causes skin irritation.

4.3 Indication of any immediate medical attention and special treatment needed

Hand over this safety data sheet to the physician with the special comment "watermiscible cutting oil". Get medical attention if symptoms occur.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing

media:

CO2, fire extinguishing powder or fog like water spraying. Extinguish larger fires with alcohol resistant foam or spray water with suitable surfactant

added

Unsuitable extinguishing

media:

Water with a full water jet.

5.2 Special hazards arising from the substance or

mixture:

During fire, gases hazardous to health may be formed.

5.3 Advice for firefighters

Special fire fighting procedures:

Move container from fire area if it can be done without risk. Dispose of fire debris and contaminated fire fighting water inaccordance with official regulations. Collect contaminated fire fighting water separately. It must not

enter drains.

Special protective

equipment for fire-fighters:

Self-contained breathing apparatus and full protective clothing must be

worn in case of fire.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures:

Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Keep unauthorized personnel away. In case

of spills, beware of slippery floors and surfaces.

Issue Date: 30.10.2013 Revision Date: 11.06.2018 Print date: 16.06.2018

SDS_DE - EN - 000000000600847906



6.2 Environmental Precautions: Prevent from spreading (e.g. by binding or oil barriers). Avoid release to the

environment. Environmental manager must be informed of all major spillages. Prevent further leakage or spillage if safe to do so. Do not allow

to enter drainage system, surface or ground water.

6.3 Methods and material for containment and cleaning

up:

Absorb with liquid-binding material (sand, diatomite, acidbinders, universal binders, sawdust). Dispose of the material collected according to

regulations. Stop the flow of material, if this is without risk.

6.4 Reference to other See Section 8 of the SDS for Personal Protective Equipment. See Section sections:

7 for information on safe handling See Section 13 for information on

disposal.

Dike for later disposal. Prevent entry into waterways, sewer, basements or

confined areas. Stop the flow of material, if this is without risk.

SECTION 7: Handling and storage:

7.1 Precautions for safe

handling:

Avoid contact with eyes. Wash hands thoroughly after handling. Do not eat, drink or smoke when working with the product. Take usual precautions when handling mineral oil products or chemical products. Avoid contact with

skin. Prevent formation of aerosols. Observe good industrial hygiene

practices. Provide adequate ventilation.

7.2 Conditions for safe storage,

including any incompatibilities: Local regulations concerning handling and storage of waterpolluting

products have to be followed. Store above freezing.

7.3 Specific end use(s): Not applicable

Storage Class: 10-13, combustible / non-combustible liquids and solids

SECTION 8: Exposure controls/personal protection

8.1 Control Parameters

Occupational Exposure Limits

Chemical name	Туре	Exposure Limit Values	Source
tert. alkanolamine - Inhalable fraction.	MAK	5 mg/m3	Germany. DFG MAK List (advisory OELs). Commission for the Investigation of Health Hazards of Chemical Compounds in the Work Area (DFG) (2011)
Glycol derivative - Inhalable fraction.	AGW	1.000 mg/m3	Germany. TRGS 900, Occupational Exposure Limits (AGW) (01 2012)
Boric acid - Inhalable fraction as B	AGW	0,5 mg/m3	Germany. TRGS 900, Occupational Exposure Limits (AGW) (11 2015)

8.2 Exposure controls

Issue Date: 30.10.2013 Revision Date: 11.06.2018 Print date: 16.06.2018

SDS_DE - EN - 000000000600847906



Appropriate engineering

controls:

Provide adequate ventilation. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

Individual protection measures, such as personal protective equipment

General information: Wash hands before breaks and after work. Use personal protective

equipment as required. Personal protection equipment should be chosen according to the CEN standards and in discussion with the supplier of the personal protective equipment. The usual precautionary measures should be adhered to inhandling the chemicals or the mineral oil products.

Eye/face protection: Safety glasses (EN 166) recommended during refilling. Avoid contact with

eyes.

Skin protection

Hand Protection: Material: Nitrile-butadiene rubber (NBR).

Min. Breakthrough time: >= 480 min

Recommended thickness of the material: >= 0,38 mm

Avoid long-term and repeated skin contact. Suitable gloves can be recommended by the glove supplier. Use skin protection cream for preventive skin protection. Protective gloves, where permitted in acc. to safety directions. The exact break through time has to be found out by the

manufacturer of the protective gloves and has to be observed.

Other: Do not carry cleaning cloths impregnated with the product in trouser

pockets. Wear suitable protective clothing.

Respiratory Protection: Ensure good ventilation/exhaustion at the workplace. Avoid breathing

vapour/ aerosol.

Thermal hazards: Not known.

Hygiene measures: Always observe good personal hygiene measures, such as washing after

handling the material and before eating, drinking, and/or smoking. Routinely

wash work clothing to remove contaminants. Discard contaminated

footwear that cannot be cleaned.

Environmental Controls: No data available.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance

Physical state: liquid
Form: liquid
Color: Pale yellow
Odor: Characteristic

Odor Threshold: Not applicable for mixtures

pH: 9,2 (50 g/l, 20 °C)

Issue Date: 30.10.2013 Revision Date: 11.06.2018 Print date: 16.06.2018

Print date: 16.06.2018 SDS_DE - EN - 00000000600847906



Freezing point: Not applicable for mixtures

Boiling Point: Value not relevant for classification

Flash Point: Not applicable

Evaporation Rate: Not applicable for mixtures

Flammability (solid, gas): Value not relevant for classification

Flammability Limit - Upper (%)—:

Flammability Limit - Lower (%)—:

Vapor pressure:

Not applicable for mixtures

Not applicable for mixtures

Not applicable for mixtures

Not applicable for mixtures

Density: 1,08 g/ml (15,00 °C)

Solubility(ies)

Solubility in Water: Soluble

Solubility (other): No data available.

Partition coefficient (n-octanol/water): Not applicable for mixtures

Autoignition Temperature: Value not relevant for classification

Decomposition Temperature: Value not relevant for classification

Kinematic viscosity: 10 mm2/s (40 °C)

Explosive properties:Value not relevant for classification **Oxidizing properties:**Value not relevant for classification

9.2 Other information No data available.

SECTION 10: Stability and reactivity

10.1 Reactivity: Stable under normal use conditions.

10.2 Chemical Stability: Stable under normal use conditions.

10.3 Possibility of hazardous

reactions:

Stable under normal use conditions.

10.4 Conditions to avoid: Stable under normal use conditions.

10.5 Incompatible Materials: Strong oxidizing substances. Strong acids. Strong bases.

10.6 Hazardous Decomposition

Products:

Thermal decomposition or combustion may liberate carbon oxides and

other toxic gases or vapors.

SECTION 11: Toxicological information

Information on likely routes of exposure

Inhalation: No data available.

Ingestion: No data available.

Skin Contact: Causes skin irritation.

Eye contact: Causes eye irritation.

Issue Date: 30.10.2013 Revision Date: 11.06.2018

Print date: 16.06.2018 SDS_DE - EN - 00000000600847906



11.1 Information on toxicological effects

Acute toxicity

Oral

Product: ATEmix: 12.195 mg/kg

Specified substance(s)

prim. alkanolamine, ionic equilibrium with acids

LD 50 (Rat): 1.515 mg/kg (OECD 401)

Boric acid LD 50 (Rat, Male): 3.450 mg/kg (OECD 401)

Dermal

Product: ATEmix: 26.829 mg/kg

Specified substance(s)

prim. alkanolamine, ionic equilibrium with acids

LD 50 (Rabbit): 2.504 mg/kg (OECD 402)

Inhalation

Product: ATEmix: 268,29 mg/l

Vapour

Specified substance(s)

Boric acid LC 50 (Rat, Female, Male, 4 h): > 2,12 mg/l (OECD 403)

Skin Corrosion/Irritation:

Product: Based on available data, the classification criteria are met.

Serious Eye Damage/Eye Irritation:

Product: Based on available data, the classification criteria are met.

Respiratory or Skin Sensitization:

Product: Skin sensitizer: Based on available data, the classification criteria are not

Respiratory sensitizer: Based on available data, the classification criteria

are not met.

Specified substance(s)

Boric acid

No sensitizing effect (guinea pig); OECD 406

Germ Cell Mutagenicity

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

Carcinogenicity

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

Reproductive toxicity

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

Specific Target Organ Toxicity - Single Exposure

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

Issue Date: 30.10.2013 Revision Date: 11.06.2018 Print date: 16.06.2018

SDS_DE - EN - 000000000600847906

Version: 2.2

7/11



Specific Target Organ Toxicity - Repeated Exposure

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

Aspiration Hazard

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

Other adverse effects: No data available.

SECTION 12: Ecological information

12.1 Toxicity

Acute toxicity

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

Fish

Specified substance(s)

acid, ionic equilibrium with organic bases

LC 50 (Fish, 96 h): 101 mg/l

prim. alkanolamine, ionic

equilibrium with acids

LC 50 (Fish, 96 h): 125 mg/l

Boric acid LC 50 (Fish, 96 h): 456 mg/l

Aquatic Invertebrates Specified substance(s)

acid, ionic equilibrium with organic bases

EC 50 (Water Flea, 48 h): > 1.000 mg/l

prim. alkanolamine, ionic

equilibrium with acids

EC 50 (Water Flea, 48 h): 65 mg/l

EC 50 (Water Flea, 48 h): 133 mg/l Boric acid

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

Aquatic Invertebrates Specified substance(s)

acid, ionic equilibrium with organic bases

NOEC (Water Flea, 21 d): 4,78 mg/l

Toxicity to Aquatic Plants Specified substance(s)

prim. alkanolamine, ionic equilibrium with acids

EC 50 (Alga, 72 h): 22 mg/l

Boric acid EC 50 (Alga, 72 h): 229 mg/l

12.2 Persistence and Degradability

Biodegradation

Product: Not applicable for mixtures

12.3 Bioaccumulative potential

SDS_DE - EN - 000000000600847906

Issue Date: 30.10.2013 Revision Date: 11.06.2018

Version: 2.2 Print date: 16.06.2018

8/11



Product: Not applicable for mixtures

12.4 Mobility in soil:

Product: Not applicable for mixtures

12.5 Results of PBT and vPvB

assessment:

The product does not contain any substances fulfilling the PBT/vPvB criteria.

12.6 Other adverse effects: No data available.

Water Hazard Class

(WGK):

WGK 1: slightly water-endangering.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

General information: Dispose in accordance with all applicable regulations.

Disposal methods: Do not empty into drains; dispose of this material and its container in a safe

way. When storing used products, ensure that the waste categories and

mixing instructions are observed.

European Waste Codes

12 01 09*: machining emulsions and solutions free of halogens

SECTION 14: Transport information

ADR/RID

14.1 UN Number: -

14.2 UN Proper Shipping Name: -

14.3 Transport Hazard Class(es)

Class: Non-dangerous goods

Label(s): – Hazard No. (ADR): –

Tunnel restriction code: -

14.4 Packing Group: –
14.5 Environmental hazards: –

14.6 Special precautions for user:

ADN

14.1 UN Number:

14.2 UN Proper Shipping Name:

14.3 Transport Hazard Class(es)

Class: Non-dangerous goods

Label(s): –
14.3 Packing Group: –

14.5 Environmental hazards: –14.6 Special precautions for user: –

Issue Date: 30.10.2013
Revision Date: 11.06.2018
Print date: 16.06.2018

SDS_DE - EN - 000000000600847906

Version: 2.2



IMDG

14.1 UN Number:

14.2 UN Proper Shipping Name:

14.3 Transport Hazard Class(es)

Class: Non-dangerous goods

Label(s): – EmS No.: –

14.3 Packing Group:
14.5 Environmental hazards:
14.6 Special precautions for user:

IATA

14.1 UN Number: –

14.2 Proper Shipping Name:

14.3 Transport Hazard Class(es):

Class: Non-dangerous goods

Label(s): –

14.4 Packing Group: –

14.5 Environmental hazards: –
14.6 Special precautions for user: –

14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code: Not applicable.

SECTION 15: Regulatory information

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

EU Regulations

Regulation (EC) No. 2037/2000 Substances that deplete the ozone layer: none

Regulation (EC) No. 850/2004 on persistent organic pollutants: none

National Regulations

Water Hazard Class

WGK 1: slightly water-endangering.

(WGK):

15.2 Chemical safety

assessment:

No Chemical Safety Assessment has been carried out.

SECTION 16: Other information

Revision Information: Vertical lines in the margin indicate an amendment.

Issue Date: 30.10.2013 Revision Date: 11.06.2018 Print date: 16.06.2018

SDS_DE - EN - 00000000600847906

Version: 2.2



Wording of the H-statements in section 2 and 3

H302 Harmful if swallowed.
H312 Harmful in contact with skin.
H315 Causes skin irritation.
H319 Causes serious eye irritation.

H332 Harmful if inhaled.

H360FD May damage fertility. May damage the unborn child. H412 Harmful to aquatic life with long lasting effects.

Other information: The classification complies with the current EU lists; however, it has been

supplemented with expert literature information and information provided by/about our company. It was derived from the test data and/or the

application of the conventional method.

Revision Date: 11.06.2018

Disclaimer: The data contained in this safety data sheet are based on our current

knowledge and experience and are given to the best of our knowledge and belief. It characterizes the product only with regard to safety requirements for handling, transport and disposal. The data do not describe the product's properties (tech. product specification). Neither should any agreed property nor the suitability of the product for any specific technical application be deduced from the data contained in this safety data sheet. Modifications on this document are not allowed. The data are not transferable to other products. In the case of mixing the product with other products or in the case of processing, the data in this safety data sheet are not necessarily valid for the new-made material. It is the responsibility of the recipient of the product to observe federal, state and local law. Please contact us to obtain up-to-date safety data sheets. This document was issued electronically and has no

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Issue Date: 30.10.2013 Revision Date: 11.06.2018 Print date: 16.06.2018

SDS_DE - EN - 000000000600847906