

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 600 HS | 10-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

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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.

Environmental Hazards

Chronic hazards to the aquatic environment	Category 3	H412: Harmful to aquatic life with long lasting effects.
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Hazard summary

Physical Hazards: No data available.

2.2 Label Elements

Product name: OPTA COOL 600 HS | 10-L-GEBINDE



Signal Words: Warning

Hazard Statement(s): H315: Causes skin irritation.
H319: Causes serious eye irritation.
H412: Harmful to aquatic life with long lasting effects.

Precautionary Statements

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

Prevention: P262: Do not get in eyes, on skin, or on clothing.
P273: Avoid release to the environment.

Disposal: P501: Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.

Supplemental label information

EUH208: Contains Iodobutylcarbamate. May produce an allergic reaction.

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: Mixture of mineral base oil, anionic and nonionic agents and corrosion preventing additives in combination with stabilizers based on glycol-fatty alcohols. This product is applied only as solution or emulsion in water.

Chemical name	Identifier	Concentration *	REACH Registration No.	Notes
Glycol derivative	EINECS: 203-961-6	5,00 - <10,00%	01-2119475104-44	
Ethylene glycol derivative	Polymer	5,00 - <10,00%		
Diglycol	EINECS: 203-872-2	1,00 - <5,00%	01-2119457857-21	
Monoethanol amine	EINECS: 205-483-3	1,00 - <3,00%	01-2119486455-28	
Iodobutylcarbamate	EINECS: 259-627-5	0,25 - <1,00%		

* All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume. PBT: persistent, bioaccumulative and toxic substance.
vPvB: very persistent and very bioaccumulative substance.

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Classification

Chemical name	Identifier	Classification
Glycol derivative	EINECS: 203-961-6	CLP: Eye Irrit. 2;H319
Ethylene glycol derivative	Polymer	CLP: Eye Irrit. 2;H319
Diglycol	EINECS: 203-872-2	CLP: Acute Tox. 4;H302, STOT RE 2;H373
Monoethanol amine	EINECS: 205-483-3	CLP: Skin Corr. 1B;H314, Eye Dam. 1;H318, STOT SE 3;H335, Acute Tox. 4;H302, Acute Tox. 4;H312, Acute Tox. 4;H332, Aquatic Chronic 3;H412
Iodobutylcarbamate	EINECS: 259-627-5	CLP: Acute Tox. 4;H302, Acute Tox. 4;H332, Eye Dam. 1;H318, Skin Sens. 1;H317, STOT SE 3;H335, Aquatic Acute 1;H400, Aquatic Chronic 1;H410; M-Factor (aquatic acute): 10; M-Factor (aquatic chronic): 1

CLP: Regulation No. 1272/2008.

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

Please note that the mineral oils and petroleum distillates used in our products are severely refined and have a DMSO extract < 3% as measured by method IP 346 and are not classified as carcinogenic according to Note L of Annex VI of Regulation EC 1272/2008."

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 CENTER/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

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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 in accordance 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.

6.2 Environmental Precautions: Avoid release to the environment. Prevent further leakage or spillage if safe to do so. Prevent from spreading (e.g. by binding or oil barriers). Environmental manager must be informed of all major spillages. 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 sections: See Section 8 of the SDS for Personal Protective Equipment. See Section 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

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SECTION 8: Exposure controls/personal protection

8.1 Control Parameters

Occupational Exposure Limits

Chemical name	Type	Exposure Limit Values	Source
Glycol derivative - Vapor and aerosol.	AGW	10 ppm 67 mg/m ³	Germany. TRGS 900, Occupational Exposure Limits (AGW) (04 2014)
Fatty alcohol	AGW	20 ppm 200 mg/m ³	Germany. TRGS 900, Occupational Exposure Limits (AGW) (01 2012)
Diglycol - Vapor and aerosol.	AGW	10 ppm 44 mg/m ³	Germany. TRGS 900, Occupational Exposure Limits (AGW) (09 2013)
Monoethanol amine - Vapor and aerosol.	AGW	0,2 ppm 0,5 mg/m ³	Germany. TRGS 900, Occupational Exposure Limits (AGW) (11 2016)

8.2 Exposure controls

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 in handling 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 butyl rubber (NBR).
 Min. Breakthrough time: ≥ 480 min
 Recommended thickness of the material: $\geq 0,38$ 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.

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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:	Yellow
Odor:	Characteristic
Odor Threshold:	Not applicable for mixtures
pH:	9,4 (DIN 51369, 50 g/l, 20 °C)
Freezing point:	Not applicable for mixtures
Boiling Point:	No data available.
Flash Point:	100 °C ()
Evaporation Rate:	Not applicable for mixtures
Flammability (solid, gas):	Value not relevant for classification
Flammability Limit - Upper (%)—:	Not applicable for mixtures
Flammability Limit - Lower (%)—:	Not applicable for mixtures
Vapor pressure:	Not applicable for mixtures
Vapor density (air=1):	Not applicable for mixtures
Density:	0,97 g/cm ³ (15 °C) (DIN EN ISO 12185)
Solubility(ies)	
Solubility in Water:	Emulsifiable in water
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
Flow time	Value not relevant for classification
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.

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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.

11.1 Information on toxicological effects

Acute toxicity

Oral

Product: ATEmix: 53.784 mg/kg

Specified substance(s)

Glycol derivative LD 50 (Rat): 3.384 mg/kg

Ethylene glycol derivative LD 50 (Rat): > 5.001 mg/kg

Diglycol LD 50 (Human): 1.000 mg/kg

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

Iodobutylcarbamate LD 50 (Rat): 1.470 mg/kg

Dermal

Product: ATEmix: 98.214 mg/kg

Specified substance(s)

Glycol derivative LD 50 (Rabbit): 2.700 mg/kg

Diglycol LD 50 (Rabbit): 13.300 mg/kg

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

Inhalation

Product: ATEmix: 982,14 mg/l
Vapour

Specified substance(s)

Iodobutylcarbamate LC 50 (Rat, 4 h): 6,89 mg/l

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Skin Corrosion/Irritation:

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

Specified substance(s)
Monoethanol amine Corrosive.

Iodobutylcarbamate (Rabbit):
Strongly irritating.

Serious Eye Damage/Eye Irritation:

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

Specified substance(s)
Monoethanol amine Corrosive to skin and eyes.

Iodobutylcarbamate (Rabbit):
Strongly irritating.

Respiratory or Skin Sensitization:

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

Specified substance(s)
Monoethanol amine , OECD 406-1 (Guinea Pig)
Not a skin sensitizer.

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.

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.

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SECTION 12: Ecological information

12.1 Toxicity

Acute toxicity

Product:

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

Fish

Specified substance(s)

Glycol derivative	LC 50 (Fish, 96 h): 1.300 mg/l
Ethylene glycol derivative	LC 50 (Fish, 96 h): > 1.001 mg/l
Diglycol	LC 50 (Fathead minnow (Pimephales promelas), 96 h): 75.200 mg/l
Monoethanol amine	LC 50 (Fish, 96 h): 125 mg/l
Iodobutylcarbamate	LC 50 (Fish, 96 h): 0,067 mg/l

Aquatic Invertebrates

Specified substance(s)

Glycol derivative	EC 50 (Water Flea, 48 h): > 101 mg/l
Ethylene glycol derivative	EC 50 (Water Flea): 101 - 1.000 mg/l
Monoethanol amine	EC 50 (Water Flea, 48 h): 65 mg/l
Iodobutylcarbamate	EC 50 (Water Flea, 48 h): 0,16 mg/l

Chronic Toxicity

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

Fish

Specified substance(s)

Monoethanol amine	NOEC (Fish, 30 d): 1,2 mg/l
Iodobutylcarbamate	NOEC (Fish, 96 h): 0,049 mg/l

Aquatic Invertebrates

Specified substance(s)

Monoethanol amine	NOEC (Water Flea, 21 d): 0,85 mg/l (OECD 211)
Iodobutylcarbamate	EC 50 (Water Flea, 21 d): 0,05 mg/l

Toxicity to Aquatic Plants

Specified substance(s)

Glycol derivative	EC 50 (Alga, 96 h): > 101 mg/l
Ethylene glycol derivative	EC 50 (Alga, 72 h): 156 mg/l
Monoethanol amine	EC 50 (Alga, 72 h): 22 mg/l
Iodobutylcarbamate	EC 50 (Alga, 72 h): 0,022 mg/l

12.2 Persistence and Degradability

Product name: OPTA COOL 600 HS | 10-L-GEBINDE

Biodegradation

Product:	Not applicable for mixtures
Specified substance(s)	
Ethylene glycol derivative	The product is heavily biodegradable.
Iodobutylcarbamate	Readily biodegradable

12.3 Bioaccumulative potential

Product:	Not applicable for mixtures
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12.4 Mobility in soil:

Product:	Not applicable for mixtures
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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:

Harmful to aquatic life with long lasting effects.

Water Hazard Class (WGK):

WGK 2: water-endangering.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

General information:	Dispose in accordance with all applicable regulations.
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Disposal methods:	Discharge, treatment, or disposal may be subject to national, state, or local laws. When storing used products, ensure that the waste categories and mixing instructions are observed. Do not empty into drains; dispose of this material and its container in a safe way. Product contains in the application concentration traces of iodine containing substances; this can result in an AOX value.
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European Waste Codes

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

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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: —

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): WGK 2: water-endangering.

15.2 Chemical safety assessment: No Chemical Safety Assessment has been carried out.

Product name: OPTA COOL 600 HS | 10-L-GEBINDE

SECTION 16: Other information

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

Wording of the H-statements in section 2 and 3

H302	Harmful if swallowed.
H312	Harmful in contact with skin.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H373	May cause damage to organs through prolonged or repeated exposure.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
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: 27.10.2017

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 signature.