

**Safety data sheet**  
according to 1907/2006/EC, Article 31

Printing date 03.01.2024

Version 11 (replaces version 10)

Revision: 03.01.2024

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

- **1.1 Product identifier**
- **Trade name:** **AquaTec 1550**
- **Article number:** A100546
- **UFI:** YV70-W061-100Y-WSKK
- **1.2 Relevant identified uses of the substance or mixture and uses advised against** —
- **Application of the substance / the mixture**
  - Industrial use
  - PC-TEC-13: Metal working fluids
  - F: Mixtures for further formulation
  - PC-TEC-OTH: Other products for chemical or technical processes
- **1.3 Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:** oelheld GmbH  
Ulmer Str. 133-139  
70188 Stuttgart  
GERMANY  
Tel.: +49-(0)711-16863-0  
Fax.: +49-(0)711-16863-3500  
Internet: www.oelheld.com
- **Further information obtainable from:** Tel. +49-(0)711-16863-0
- **E-mail of the informed person:** msds@oelheld.de (in German or English)
- **1.4 Emergency telephone number:** In an emergency VelocityEHS<sup>®</sup>: +1-813-248-0585 (24 h) International

**SECTION 2: Hazards identification**

- **2.1 Classification of the substance or mixture**
- **Classification according to Regulation (EC) No 1272/2008**



GHS07

- Skin Irrit. 2 H315 Causes skin irritation.
- Eye Irrit. 2 H319 Causes serious eye irritation.
- Aquatic Chronic 3 H412 Harmful to aquatic life with long lasting effects.

· **Additional information:** For the wording of the listed hazard classes refer to section 16.

- **2.2 Label elements**
- **Labelling according to Regulation (EC) No 1272/2008**
- **Hazard pictograms**

The product is classified and labelled according to the CLP regulation.



GHS07

- **Signal word** Warning
- **Hazard statements**
  - H315 Causes skin irritation.
  - H319 Causes serious eye irritation.
  - H412 Harmful to aquatic life with long lasting effects.
- **Precautionary statements**
  - P264 Wash thoroughly after handling.
  - P273 Avoid release to the environment.
  - P280 Wear eye protection / face protection.
  - P302+P352 IF ON SKIN: Wash with plenty of water.
  - P321 Specific treatment (see on this label).
  - P337+P313 If eye irritation persists: Get medical advice/attention.
  - P501 Dispose of contents/container in accordance with local/regional/national/international regulations.
- **2.3 Other hazards**
- **Results of PBT and vPvB assessment**
- **PBT:** The mixture does not contain substances in concentrations of 0.1% or higher that meet PBT criteria.
- **vPvB:** The mixture does not contain substances in concentrations of 0.1% or higher that meet vPvB criteria.
- **Determination of endocrine-disrupting properties**
  - The mixture does not contain substances in concentrations of 0.1% or higher which have endocrine disrupting properties.

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**SECTION 3: Composition/information on ingredients**

- **3.2 Mixtures**
- **Description:** Mixture of substances listed below with nonhazardous additions.

- **Dangerous components:**

CAS: 64742-53-6 EINECS: 265-156-6 registration number: 01-2119480375-34	Distillates (petroleum), hydrotreated light naphthenic Asp. Tox. 1, H304	10-25%
CAS: 770-35-4 EINECS: 212-222-7 registration number: 01-2119486566-23	1-Phenoxypropan-2-ol Eye Irrit. 2, H319	2.5 - <10%
CAS: 68608-26-4 EINECS: 271-781-5 registration number: 01-2119527859-22	Sodium sulfonate Eye Irrit. 2, H319	2.5 - <10%
CAS: 68920-66-1 NLP: 500-236-9 registration number: 01-2119489407-26	Fatty alcohol, ethoxylated Aquatic Chronic 2, H411; Skin Irrit. 2, H315	2.5 - <10%
CAS: 68920-66-1 NLP: 500-236-9	Fatty alcohol, ethoxylated Aquatic Acute 1, H400 (M=1); Skin Irrit. 2, H315; Aquatic Chronic 3, H412	2.5 - <10%
CAS: 55406-53-6 EINECS: 259-627-5 registration number: 01-2120762115-60	3-Iodo-2-propynylbutylcarbamate Acute Tox. 3, H331; STOT RE 1, H372; Eye Dam. 1, H318; Aquatic Acute 1, H400 (M=10); Aquatic Chronic 1, H410 (M=1); Acute Tox. 4, H302; Skin Sens. 1, H317	<0.1%

- **Information:** Note L is valid for this product or one or many of its ingredients.  
Note L: The classification as a carcinogen need not apply if it can be shown that the substance contains less than 3 % DMSO extract as measured by IP 346 'Determination of polycyclic aromatics in unused lubricating base oils and asphaltene free petroleum fractions - Dimethyl sulphoxide extraction refractive index method', Institute of Petroleum, London. This note applies only to certain complex oil-derived substances in Annex VI.
- **Additional information:** Water-extendable metalworking fluid concentrate  
For substances with limit values see section 8: Exposure controls/personal protection.

**SECTION 4: First aid measures**

- **4.1 Description of first aid measures**
- **General information:** Immediately remove any clothing soiled by the product.  
In case of occurring of symptoms or in doubt consult a doctor.  
If a doctor is consulted show this material safety data sheet.
- **After inhalation:** Supply fresh air; consult doctor in case of complaints.
- **After skin contact:** Immediately wash with water and soap and rinse thoroughly.
- **After eye contact:** Rinse opened eye for several minutes under running water. Then consult a doctor.
- **After swallowing:** Do not induce vomiting; seek medical treatment.
- **4.2 Most important symptoms and effects, both acute and delayed** breathing difficulties  
Headache
- **4.3 Indication of any immediate medical attention and special treatment needed** No further relevant information available.

**SECTION 5: Firefighting measures**

- **5.1 Extinguishing media**
- **Suitable extinguishing agents:** CO<sub>2</sub>, sand, extinguishing powder. Do not use water.  
Use fire extinguishing methods suitable to surrounding conditions.
- **For safety reasons unsuitable extinguishing agents:** Water with full jet
- **5.2 Special hazards arising from the substance or mixture** Under certain fire conditions, traces of other toxic gases cannot be excluded, e.g.:  
Carbon monoxide (CO)  
Nitrogen oxides (NO<sub>x</sub>)  
Sulphur oxides
- **5.3 Advice for firefighters**
- **Protective equipment:** Wear self-contained respiratory protective device.
- **Additional information** Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

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**SECTION 6: Accidental release measures**

- **6.1 Personal precautions, protective equipment and emergency procedures**

Ensure adequate ventilation.  
Particular danger of slipping on leaked/spilled product.  
Avoid contact with the eyes and skin.
- **6.2 Environmental precautions:**

Dilute with plenty of water.  
Do not allow to enter sewers/ surface or ground water.  
Do not allow to penetrate the ground/soil.  
Keep contaminated washing water and dispose of appropriately.
- **6.3 Methods and material for containment and cleaning up:**

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).  
Dispose contaminated material as waste according to section 13.
- **6.4 Reference to other sections**

See Section 7 for information on safe handling.  
See Section 8 for information on personal protection equipment.  
See Section 13 for disposal information.

**SECTION 7: Handling and storage**

- **7.1 Precautions for safe handling**

Ensure good ventilation/exhaust at the workplace.  
Open and handle receptacle with care.
- **Information about fire - and explosion protection:**

No special measures required.
- **7.2 Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:**

Store only in the original receptacle.  
Do not use galvanized receptacles.
- **Information about storage in one common storage facility:**

Store away from oxidising agents.
- **Further information about storage conditions:**

Protect from frost.  
Store in cool, dry conditions in well sealed receptacles.  
Protect from heat, direct sunlight and UV-rays.  
Storage stability under the described conditions: at least 6 months.
- **7.3 Specific end use(s)**

No further relevant information available.

**SECTION 8: Exposure controls/personal protection**

- **8.1 Control parameters**
- **Ingredients with limit values that require monitoring at the workplace:**

Formation of oil mist is possible if not used according to specifications.  
Recommended exposure limit (oil mist): TWA 5 mg/m<sup>3</sup>, STEL 10 mg/m<sup>3</sup> (ACGIH)
- **8.2 Exposure controls**
- **Appropriate engineering controls**

No further data; see section 7.
- **Individual protection measures, such as personal protective equipment**
- **General protective and hygienic measures:**

The usual precautionary measures are to be adhered to when handling chemicals.  
Wash hands before breaks and at the end of work.  
Avoid contact with the eyes and skin.
- **Respiratory protection:**

Not necessary if room is well-ventilated.  
Use suitable respiratory protective device in case of insufficient ventilation or in cases where overexposures may occur.
- **Hand protection**
- **Material of gloves**

Nitrile rubber, NBR
- **Penetration time of glove material**

At a glove thickness of about 0,7 mm the value of the permeation breakthrough in accordance with EN 374 is for chemically similar products according to the manufacturer: >480 min. (Degradation EN 374 rating class 6)  
These statements are based on laboratory test methods which could not simulate working conditions exactly. The responsibility rests with the end user for choosing the right gloves for his application.
- **Eye/face protection**

Safety glasses
- **Body protection:**

Protective work clothing

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**SECTION 9: Physical and chemical properties**

· **9.1 Information on basic physical and chemical properties**

· **General Information**

· Physical state	Fluid
· Colour:	Light brown
· Odour:	Characteristic
· Melting point/freezing point:	Undetermined.
· Boiling point or initial boiling point and boiling range	> 100 °C
· Flammability	Not applicable.
· Lower and upper explosion limit	
· Lower:	Not determined.
· Upper:	Not determined.
· Flash point:	Not applicable.
· Auto-ignition temperature:	Not determined.
· Decomposition temperature:	Not determined.
· pH (50 g/l) at 20 °C	~9
· Viscosity:	
· Kinematic viscosity at 20 °C	~120 mm <sup>2</sup> /s
· Solubility	
· water:	Fully miscible.
· Partition coefficient n-octanol/water (log value)	Not determined.
· Vapour pressure:	Not determined.
· Density and/or relative density	
· Density at 20 °C:	0.95 g/cm <sup>3</sup>
· Relative density	Not determined.
· Relative gas density	Not determined.
· Particle characteristics	Not applicable.

· **9.2 Other information**

· Appearance:	
· Form:	Fluid
· Explosive properties:	Product does not present an explosion hazard.
· Solvent content:	
· VOC (EC)	None

· **Information with regard to physical hazard classes**

· Explosives	Void
· Flammable gases	Void
· Aerosols	Void
· Oxidising gases	Void
· Gases under pressure	Void
· Flammable liquids	Void
· Flammable solids	Void
· Self-reactive substances and mixtures	Void
· Pyrophoric liquids	Void
· Pyrophoric solids	Void
· Self-heating substances and mixtures	Void
· Substances and mixtures, which emit flammable gases in contact with water	Void
· Oxidising liquids	Void
· Oxidising solids	Void
· Organic peroxides	Void
· Corrosive to metals	Void
· Desensitised explosives	Void
· Other safety characteristics	
· Mechanical sensitivity	Not determined.
· Self-accelerating polymerisation temperature	Not applicable.
· Formation of explosible dust/air mixtures	Not applicable.
· Acid/alkaline reserve	Not determined.
· Miscibility	Not determined.
· Conductivity	Not determined.
· Corrosiveness	Not determined.
· Gas group	Not applicable.
· Redox potential	Not determined.
· Radical formation potential	Not determined.
· Photocatalytic properties	Not determined.
· Additional information	The above named properties are measured according to regulation (EC) 440/2008 or according to other comparable methods.

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**SECTION 10: Stability and reactivity**

- **10.1 Reactivity** No further relevant information available.
- **10.2 Chemical stability**
- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **10.3 Possibility of hazardous reactions** No dangerous reactions known.
- **10.4 Conditions to avoid** See above
- **10.5 Incompatible materials:** Strong oxidizing agents
- **10.6 Hazardous decomposition products:** No decomposition if used and stored according to specifications.

**SECTION 11: Toxicological information**

- **11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008**
- **Acute toxicity** Based on available data, the classification criteria are not met.
- **LD/LC50 values relevant for classification:** ATE mix:  
Oral: Acute toxicity estimate: > 2,000 mg/kg  
Dermal: Acute toxicity estimate: > 2,000 mg/kg  
Inhalation: Acute toxicity estimate: for gases > 20,000 ppmV; for vapours > 20 mg/l; for dust/mist > 5 mg/l
- **Skin corrosion/irritation** Causes skin irritation.
- **Serious eye damage/irritation** Causes serious eye irritation.
- **Respiratory or skin sensitisation** Based on available data, the classification criteria are not met.
- **Germ cell mutagenicity** Based on available data, the classification criteria are not met.
- **Carcinogenicity** Based on available data, the classification criteria are not met.
- **Reproductive toxicity** Based on available data, the classification criteria are not met.
- **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.
- **11.2 Information on other hazards**
- **Endocrine disrupting properties** The mixture does not contain substances in concentrations of 0.1% or higher which have endocrine disrupting properties.

**SECTION 12: Ecological information**

- **12.1 Toxicity**
- **Aquatic toxicity:** No further relevant information available.
- **12.2 Persistence and degradability** No further relevant information available.
- **12.3 Bioaccumulative potential** No further relevant information available.
- **12.4 Mobility in soil** No further relevant information available.
- **12.5 Results of PBT and vPvB assessment**
- **PBT:** The mixture does not contain substances in concentrations of 0.1% or higher that meet PBT criteria.
- **vPvB:** The mixture does not contain substances in concentrations of 0.1% or higher that meet vPvB criteria.
- **12.6 Endocrine disrupting properties** The mixture does not contain substances in concentrations of 0.1% or higher which have endocrine disrupting properties.
- **12.7 Other adverse effects** No further relevant information available.
- **Additional ecological information:**
- **General notes:** Water hazard class 2 (according to German Regulation) (Self assessment): hazardous for water  
Do not allow product to reach ground water, water course or sewage system.  
Danger to drinking water if even small quantities leak into the ground.

**SECTION 13: Disposal considerations**

- **13.1 Waste treatment methods**
- **Recommendation** Must not be disposed together with household garbage. Do not allow product to reach sewage system.

· **European waste catalogue**

12 01 09*	machining emulsions and solutions free of halogens
15 01 10*	packaging containing residues of or contaminated by hazardous substances
HP4	Irritant - skin irritation and eye damage
HP14	Ecotoxic

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- For the product: 12 01 09\*
- Uncleaned packaging:
- Recommendation: Disposal must be made according to official regulations.  
Waste disposal key: 15 01 10\*
- Recommended cleansing agents: Water, if necessary together with cleansing agents.

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**SECTION 14: Transport information**

- 14.1 UN number or ID number
- ADR Void
- ADN, IMDG, IATA Void

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- 14.2 UN proper shipping name
- ADR, ADN, IMDG, IATA Void

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- 14.3 Transport hazard class(es)
- ADR
- Class Void
- Label Void
- ADN/R Class: Void

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- 14.4 Packing group
- ADR Void
- IMDG, IATA Void

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- 14.5 Environmental hazards:
- Marine pollutant: No

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- 14.6 Special precautions for user Not applicable.


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- 14.7 Maritime transport in bulk according to IMO instruments Not applicable.

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- Transport/Additional information: Not dangerous according to the above specifications.
- ADR
- Excepted quantities (EQ): Void
- Limited quantities (LQ) Void
- Transport category Void
- Tunnel restriction code Void
- IMDG
- Limited quantities (LQ) Void
- Excepted quantities (EQ) Void
- IATA
- Remarks: Void
- UN "Model Regulation": Void

**SECTION 15: Regulatory information**

- 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
  - Labelling according to Regulation (EC) No 1272/2008
  - Hazard pictograms
- The product is classified and labelled according to the CLP regulation.
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GHS07
- Signal word Warning
  - Hazard statements H315 Causes skin irritation.  
H319 Causes serious eye irritation.  
H412 Harmful to aquatic life with long lasting effects.
  - Precautionary statements P264 Wash thoroughly after handling.  
P273 Avoid release to the environment.  
P280 Wear eye protection / face protection.  
P302+P352 IF ON SKIN: Wash with plenty of water.  
P321 Specific treatment (see on this label).  
P337+P313 If eye irritation persists: Get medical advice/attention.  
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.
  - Directive 2012/18/EU Void

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- **Named dangerous substances - ANNEX I** None of the ingredients is listed.
- **REGULATION (EC) No 1907/2006 ANNEX XVII** Conditions of restriction: 3
- **REGULATION (EU) 2019/1148 Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))** None of the ingredients is listed.
- **Annex II - REPORTABLE EXPLOSIVES PRECURSORS** None of the ingredients is listed.

· **Regulation (EC) No 273/2004 on drug precursors**

None of the ingredients is listed.

· **Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors**

None of the ingredients is listed.

· **National regulations:**

· **Breakdown regulations:** The product is not subject to the directive on the control of major-accident hazards involving dangerous substances.

· **Waterhazard class:** Water hazard class 2 (according to German regulation) (Self assessment): hazardous for water.

· **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

**SECTION 16: Other information**

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.  
This Safety Data Sheet is in compliance with Regulation (EC) No 1907/2006, Article 31 as amended by Regulation (EU) 2020/878.

- **Reasons for alterations** General revision.
- **Relevant phrases** H302 Harmful if swallowed.  
H304 May be fatal if swallowed and enters airways.  
H315 Causes skin irritation.  
H317 May cause an allergic skin reaction.  
H318 Causes serious eye damage.  
H319 Causes serious eye irritation.  
H331 Toxic if inhaled.  
H372 Causes damage to organs through prolonged or repeated exposure.  
H400 Very toxic to aquatic life.  
H410 Very toxic to aquatic life with long lasting effects.  
H411 Toxic to aquatic life with long lasting effects.  
H412 Harmful to aquatic life with long lasting effects.

· **Classification according to Regulation (EC) No 1272/2008** Calculation method  
Bridging principles

· **Department issuing SDS:** Department of Research & Development

· **Version number of previous version:** 10

· **Abbreviations and acronyms:** REACH: Registration, Evaluation and Authorisation of Chemicals (regulation (EC) No 1907/2006)  
PBT: persistent, bioaccumulative, toxic  
vPvB: very persistent, very bioaccumulative  
EC: European Community  
NLP: no longer polymers  
EINECS: European Inventory of Existing Commercial Chemical Substances  
ELINCS: European List of Notified Chemical Substances  
CAS: Chemical Abstracts Service (division of the American Chemical Society)  
WEL: Worktime Exposure Limit  
TWA: Time Weighted Average concentration  
STEL: Short Time Exposure Limit  
OEL: Occupational Exposure Limit  
OEL (EU): Occupational Exposure Limit of the European Union  
TLV: Threshold limit value  
TWA: Time Weighted Average concentration  
STEL: Short Time Exposure Limit  
IOELV: Indicative Occupational Exposure Limit Value  
OEL: Occupational Exposure Limit  
WEL: Worktime Exposure Limit  
ACGIH: American Conference of Governmental Industrial Hygienists  
EC<sub>50</sub>: ecotoxic concentration, 50 percent  
NOEC: no observed effect concentrations  
NOELR: No observed effect loading rate  
ATE: acute toxicity estimate  
EDC: Endocrine disrupting chemicals  
LC<sub>50</sub>: Lethal concentration, 50 percent  
LD<sub>50</sub>: Lethal dose, 50 percent  
VOC: Volatile Organic Compounds (USA, EC)  
ADR: Accord européen sur le transport des marchandises Dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

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IMDG: International Maritime Code for Dangerous Goods  
IATA: International Air Transport Association  
Acute Tox. 4: Acute toxicity – Category 4  
Acute Tox. 3: Acute toxicity – Category 3  
Skin Irrit. 2: Skin corrosion/irritation – Category 2  
Eye Dam. 1: Serious eye damage/eye irritation – Category 1  
Eye Irrit. 2: Serious eye damage/eye irritation – Category 2  
Skin Sens. 1: Skin sensitisation – Category 1  
STOT RE 1: Specific target organ toxicity (repeated exposure) – Category 1  
Asp. Tox. 1: Aspiration hazard – Category 1  
Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1  
Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1  
Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2  
Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3

· \* Data compared to the previous  
version altered.

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