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

Printing date 12.12.2023 *Version 9 (replaces version 8)* *Revision: 12.12.2023*

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

· **1.1 Product identifier**

· **Trade name:** **Twinmax**
· **Document index:** TECH340

· **Article number:** 896004 (20-L)

· **UFI:** Y300-P0FE-S00M-G386

· **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:**
Steidle GmbH
Roettgerweg 12
D-51371 Leverkusen
GERMANY
Tel.: +49-(0)214/82511-25 E-Mail: info@steidle-gmbh.de
Fax: +49-(0)214/82511-26 Internet: www.steidle-gmbh.de

· **Further information obtainable from:** Department of technology: +49-(0)214/82511-21

· **E-mail of the informed person:** info@steidle-gmbh.de

· **1.4 Emergency telephone number:** Emergency CONTACT (24-Hour-Number): GBK GmbH +49 (0)6132-84463

SECTION 2: Hazards identification

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


GHS05 corrosion

Eye Dam. 1 H318 Causes serious eye damage.

Aquatic Chronic 3 H412 Harmful to aquatic life with long lasting effects.
· **Additional information:** For the wording of the listed hazard classses refer to section 16.

· **2.2 Label elements**
· **Labelling according to Regulation (EC) No 1272/2008** The product is classified and labelled according to the CLP regulation.
· **Hazard pictograms**


GHS05

· **Signal word** Danger

· **Hazard-determining components of labelling:** 2-phenoxyethanol
· **Hazard statements**
H318 Causes serious eye damage.
H412 Harmful to aquatic life with long lasting effects.
· **Precautionary statements**
P273 Avoid release to the environment.
P280 Wear eye protection / face protection.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310 Immediately call a POISON CENTER/doctor.
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.
· **Additional information:** EUH208 Contains 3-Iodo-2-propynylbutylcarbamate. May produce an allergic reaction.
· **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.

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· **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: 122-99-6 EINECS: 204-589-7 registration number: 01-2119488943-21	2-phenoxyethanol Eye Dam. 1, H318; Acute Tox. 4, H302; STOT SE 3, H335 ATE: LD50 oral: 1,394 mg/kg	<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	<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	<1%
CAS: 55406-53-6 EINECS: 259-627-5 registration number: 01-212076115-60	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	<0.25%

· **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.
Take affected persons out of danger area.
Keep quiet and cover.
Do not leave affected persons unattended.
In case of occuring 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.
In case of unconsciousness place patient stably in side position for transportation.
· **After skin contact:** Immediately wash with water and soap and rinse thoroughly.
If skin irritation occurs, consult a doctor.
· **After eye contact:** Rinse opened eye for several minutes under running water. Then consult a doctor.
· **After swallowing:** Rinse out mouth.
Do not give anything to an unconscious person.
Do not induce vomiting; seek medical treatment.
· **4.2 Most important symptoms and effects, both acute and delayed** The following symptoms may occur:
breathing difficulties
Headache
Malaise
Dizziness
Symptoms can occur only many hours after the exposure.
· **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_2, powder or water spray. Fight larger fire with alcohol resistant foam.
· **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_x)
Sulphur dioxide (SO_2)
Carbon dioxide (CO_2)
· **5.3 Advice for firefighters**
· **Protective equipment:** Wear self-contained respiratory protective device.

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· **Additional information** Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

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.
Avoid contact with the eyes and skin.

· **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 temperature: 5-40°C
Storage stability under the described conditions at least 6 months.

· **7.3 Specific end use(s)** No further relevant information available.

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SECTION 8: Exposure controls/personal protection

· **8.1 Control parameters**

· **Ingredients with limit values that require monitoring at the workplace:** The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

· **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:** Use suitable respiratory protective device in case of insufficient ventilation or in cases where overexposures may occur.

· **Hand protection** Protective gloves

· **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** Tightly sealed goggles during handling of the concentrate.

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· **Body protection:** Protective work clothing

SECTION 9: Physical and chemical properties

· **9.1 Information on basic physical and chemical properties**	
· **General Information**	
· **Physical state**	Fluid
· **Colour:**	Yellow
· **Odour:**	Characteristic
· **Melting point/freezing point:**	Undetermined.
· **Boiling point or initial boiling point and boiling range**	Undetermined.
· **Flammability**	Not applicable.
· **Lower and upper explosion limit**	
· **Lower:**	Not determined.
· **Upper:**	Not determined.
· **Flash point:**	>120 °C
· **Auto-ignition temperature:**	Not determined.
· **Decomposition temperature:**	Not determined.
· **pH (50 g/l) at 23 °C**	9.2
· **Viscosity:**	
· **Kinematic viscosity at 20 °C**	180 mm²/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:**	0.98 g/cm³
· **Relative density**	Not determined.
· **Relative gas density**	Not determined.
· **Particle characteristics**	Not applicable.
· **9.2 Other information**	
· **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.

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· **Additional information** The above named properties are measured according to regulation (EC) 440/2008 or according to other comparable methods.

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:** Acids
Oxidizing agents
· **10.6 Hazardous decomposition products:** No decomposition if used and stored according to specifications.

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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

122-99-6 2-phenoxyethanol		
Oral	LD50	1,394 mg/kg (ATE)
		1,260-5,550 mg/kg (rat)
Dermal	LD50	>5,000 mg/kg (rabbit)

· **Skin corrosion/irritation** Based on available data, the classification criteria are not met.
· **Serious eye damage/irritation** Causes serious eye damage.
· **Respiratory or skin sensitisation** Contains: 3-Iodo-2-propynylbutylcarbamate
May produce an allergic reaction.
· **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.

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SECTION 12: Ecological information

· **12.1 Toxicity**

· **Aquatic toxicity:**	
68920-66-1 Fatty alcohol, ethoxylated	
EC50 / 72hr	>100 mg/l (Al1)
55406-53-6 3-Iodo-2-propynylbutylcarbamate	
NOEC / 35d	0.0084 mg/l (Pimephales promelas)
NOEC / 96h	0.049 mg/l (Oncorhynchus mykiss)
NOEC / 72hr	0.0046 mg/l (algae)
EC50 / 3hr	44 mg/l (Microorganisms)
LC50 / 96hr	0.067 mg/l (Oncorhynchus mykiss)
EC50 / 72hr	0.022 mg/l (algae)
EC50 / 48hr	0.16 mg/l (Daphnia magna)

· **Acute ecotoxicity:**	
68920-66-1 Fatty alcohol, ethoxylated	
EL50 / 48hr	51 mg/l (Daphnia magna)

· **12.2 Persistence and degradability** Easily biodegradable
· **12.3 Bioaccumulative potential** No further relevant information available.

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· **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**

· **Behaviour in sewage processing plants:**	
55406-53-6 3-Iodo-2-propynylbutylcarbamate	
EC50 / 21d	0.05 mg/l (Daphnia magna)

· **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 07*	mineral-based machining oils free of halogens (except emulsions and solutions)
12 01 09*	machining emulsions and solutions free of halogens
15 01 10*	packaging containing residues of or contaminated by hazardous substances
HP14	Ecotoxic

· **For the delivered concentrate:** 12 01 07*
· **For the emulsion/solution ready for use:** 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.

SECTION 14: Transport information

· **14.1 UN number or ID number**
· **ADR, ADN, IMDG, IATA** Void

· **14.2 UN proper shipping name**
· **ADR** Void
· **ADN, IMDG, IATA** Void

· **14.3 Transport hazard class(es)**

· **ADR**
· **Class** Void
· **Label** Void
· **ADN/R Class:** Void

· **14.4 Packing group**
· **ADR, IMDG, IATA** Void

· **14.5 Environmental hazards:**
· **Marine pollutant:** No

· **14.6 Special precautions for user** Not applicable.

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

· **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

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· **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** The product is classified and labelled according to the CLP regulation.
· **Hazard pictograms**

GHS05

· **Signal word** Danger

· **Hazard-determining components of labelling:** 2-phenoxyethanol
· **Hazard statements**
H318 Causes serious eye damage.
H412 Harmful to aquatic life with long lasting effects.
· **Precautionary statements**
P273 Avoid release to the environment.
P280 Wear eye protection / face protection.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310 Immediately call a POISON CENTER/doctor.
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

· **Directive 2012/18/EU** Void
· **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.

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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 Sheets 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.
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H318 Causes serious eye damage.
H331 Toxic if inhaled.

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H335 May cause respiratory irritation.
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 technology: +49-(0)214/82511-21
· **Version number of previous version:** 8
· **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_{50}: ecotoxic concentration, 50 percent
NOEC: no observed effect concentrations
NOELR: No observed effect loading rate
ATE: acute toxicity estimate
EDC: Endocrine disrupting chemicals
LC_{50}: Lethal concentration, 50 percent
LD_{50}: 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)
IMDG: International Maritime Code for Dangerous Goods
IATA: International Air Transport Association
ATE: Acute toxicity estimate values
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
Skin Sens. 1: Skin sensitisation – Category 1
STOT SE 3: Specific target organ toxicity (single exposure) – Category 3
STOT RE 1: Specific target organ toxicity (repeated exposure) – 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.**