

Printing date 30.03.2023

Version 8 (replaces version 7)

Revision: 30.03.2023

SECTION 1: Identification of	the substance/mixture and of the company/undertaking				
· 1.1 Product identifier					
Trade name:	Twinmax				
· Document index:	896004 (20-1)				
 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 sa • Manufacturer/Supplier: 	fety data sheet Steidle GmbH Roettgerweg 12 D-51371 Leverkusen GERMANY Tel.: +49-(0)214/82511-25 Fax: +49-(0)214/82511-26 E-Mail: info@steidle-gmbh.de Internet: www.steidle-gmbh.de				
· Further information obtainable from	n: Department of technology: +49-(0)214/82511-21				
· E-mail of the informed person:	info@steidle-gmbh.de				
· 1.4 Emergency telephone number:	see above or consult the next poison information departement				
• 2.1 Classification of the substance • Classification according to Regular	2.1 Classification of the substance or mixture Classification according to Regulation (EC) No 1272/2008 GHS05 corrosion				
Eye Dam. 1 H318 Causes seri	ous eye damage.				
Aquatic Chronic 3 H412 Harmful to a • Additional information:	equatic life with long lasting effects. For the wording of the listed hazard classses 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.				
· Signal word	Danger				
 Hazard-determining components o labelling: Hazard statements 	f 2-phenoxyethanol 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/netronal/international regulations.				
 Additional information: 2.3 Other hazards 	EUH208 Contains 3-lodo-2-propynylbutylcarbamate. May produce an allergic reaction.				
 Results of PBT and vPvB assessments PBT: 	ent The mixture does not contain substances in concentrations of 0.1% or higher that meet				
· vPvB·	PBT criteria.				
	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: 122-99-6 2 EINECS: 204-589-7 E Reg.nr.: 01-2119488943-21 A	2-phenoxyethanol <10% Eye Dam. 1, H318; Acute Tox. 4, H302; STOT SE 3, H335 ATE: LD50 oral: 1,394 mg/kg				
CAS: 68920-66-1 F NLP: 500-236-9 A Reg.nr.: 01-2119489407-26	Fatty alcohol, ethoxylated <10%				
CAS: 68920-66-1 F NLP: 500-236-9 A	Fatty alcohol, ethoxylated Aquatic Acute 1, H400 (M=1); Skin Irrit. 2, H315; Aquatic Chronic 3. H412				
CAS: 55406-53-6 3 EINECS: 259-627-5 A Reg.nr.: 01-212076115-60 A	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				
Information: Additional 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. Water-extendable metalworking fluid concentrate For the wording of the listed risk phrases refer to section 16. For substances with limit values see section 8: Exposure controls/personal protection.				
SECTION 4: First aid n	neasures				
4.1 Description of first aid m	neasures				
	lake 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 swallowing:	Rinse opened eye for several minutes under running water. Then consult a doctor Rinse out mouth. Do not give anything to an unconscious person. Do not induce vomiting; seek medical treatment.				
4.2 Most important sympton effects, both acute and dela	ns and yed The following symptoms may occur: breathing difficulties Headache Malaise Dizziness				
4.3 Indication of any immed medical attention and speci treatment needed	al No further relevant information available.				
SECTION 5: Firefightin	ig measures				
 5.1 Extinguishing media Suitable extinguishing agen For safety reasons unsuitab extinguishing agents: 	 CO₂, powder or water spray. Fight larger fire with alcohol resistant foam. Water with full jet 				
5.2 Special hazards arising substance or mixture	from the 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.	on page 3,			

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

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Trade name: Twinmax (Contd. of page 2) · 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 Information about fire - and explosion protection: 	Ensure good ventilation/exhaust at the workplace. Open and handle receptacle with care. Avoid contact with the eyes and skin. No special measures required.
 7.2 Conditions for safe storage, inclusive storage: Requirements to be met by storerooms and receptacles: 	Store only in the original receptacle.
Information about storage in one common storage facility: Further information about storage	Store away from oxidising agents.
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.

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.
9.2 Expedito controlo	
Appropriate angingering controls	No further data, and castion 7
Appropriate engineering controls	
Individual protection measures, such	a s 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 anolication
Evolface protection	Tightly appled appled during bandling of the appendicts
Eyenace protection	ngnuy sealed goggles during nandling of the concentrate.



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· Body protection:

Protective work clothing

9.1 Information on basic physical and chemical propert	ies	
General Information		
Physical state	Fluid	
Colour:	Yellow	
Odour:	Characteristic	
Melting point/freezing point	Undetermined	
Boiling point or initial boiling point and boiling range	Undetermined.	
Elammability	Net applicable	
Lower and upper explosion limit	Not applicable.	
	Not determined	
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	
Vanour processo	Not determined.	
vapour pressure:	Not determined.	
Density and/or relative density		
Density at 20 °C:	0.98 g/cm ³	
Relative density	Not determined.	
Relative gas density	Not determined.	
Particle characteristics	Not applicable.	
9.2 Other information		
	Duadwat data wat was ant an availation beyond	
Explosive properties:	Product does not present an explosion nazard.	
Solvent content:		
VOC (EC)	None	
Information with regard to physical hazard classes		
Fxnlosives	Void	
Elammable gases	Void	
Aarooolo	Void	
Activities acces	Volu	
Oxidising gases	Vold	
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	
Ovidicing liquido	Void	
Oxidising liquids	Volu	
Organic peroxides	νοία	
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 aroun	Not applicable	
Daday potential	Not determined	
Reduct potential	Not determined.	
Radical formation potential	Not determined.	
Photocatalytic properties	ivor determined.	(Contra on series 5)
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· Additional information

(Contd. of page 4) 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 / condition 	IS				
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.				
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 	Based on available data, the classification criteria are not met.				
 Serious eye damage/irritation 	Causes serious eye damage.				
 Respiratory or skin sensitisation 	Contains: 3-lodo-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				

SECTION 12: Ecological information

· 12.1 Toxicity					
· Aquatic toxicity:					
68920-66-1 Fatty alcohol, ethoxylate	d				
EC50 / 72hr >100 mg/l (Al1)	EC50 / 72hr >100 mg/l (Al1)				
55406-53-6 3-lodo-2-propynylbutylca	rbamate				
NOEC / 35d 0.0084 mg/l (Pimephales	s promelas)				
NOEC / 96h 0.049 mg/l (Oncorhynch	us mykiss)				
NOEC / 72hr 0.0046 mg/l (Scenedesn	nus subspicatus)				
EC50 / 3hr 44 mg/l (Microorganisms					
LC50 / 96hr 0.067 mg/l (Oncorhynchi	us mykiss)				
EC50 / 72hr 0.022 mg/l (Scenedesmu	0.022 mg/l (Scenedesmus subspicatus)				
EC50 / 48hr 0.16 mg/l (Daphnia mag	0.16 mg/l (Daphnia magna)				
· Acute ecotoxicity:					
68920-66-1 Fatty alcohol, ethoxylate	d				
EL50 / 48hr 51 mg/l (Daphnia magna)					
12.2 Persistence and degradability	Easily biodegradable				
 12.3 Bioaccumulative potential 	No further relevant information available.				
 12.4 Mobility in soil 	• 12.4 Mobility in soil No further relevant information available.				
 12.5 Results of PBT and vPvB asses 	sment				
· 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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endocrine disrupting properties.



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	· 12.6 Endocrine disrupting properties	<i>(Contd. of page 5)</i> 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 pla	nts:
	55406-53-6 3-lodo-2-propynylbutylcar	rbamate
	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 consid	lerations
	 13.1 Waste treatment methods Recommendation 	Must not be disposed together with household garbage. Do not allow product to reach sewage system.
Γ	· European waste catalogue	
	12 01 07* mineral-based machining oil	s free of halogens (except emulsions and solutions)
	12 01 09* machining emulsions and so	lutions free of halogens
	15 01 10* packaging containing residue	es of or contaminated by hazardous substances
	HP14 Ecotoxic	
	 For the delivered concentrate: For the emulsion/solution ready for use: 	12 01 07* 12 01 09*
	 Uncleaned packaging: Recommendation: 	Disposal must be made according to official regulations.
	· Recommended cleansing agents:	Waste disposal key. 10 01 10 Water, if necessary together with cleansing agents.
	SECTION 14: Transport inform	nation
_	· 14.1 UN number or ID number · ADR, ADN, IMDG, IATA	Void
	· 14.2 UN proper shipping name · ADR · ADN, IMDG, IATA	Void Void
-	· 14.3 Transport hazard class(es)	
	· ADR · Class · Label · ADN/R Class:	Void Void 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 accor instruments 	rding to IMO Not applicable.
_	· Transport/Additional information:	Not dangerous according to the above specifications.
	ADR Excepted quantities (EQ): Limited quantities (LQ) Transport category Tunnel restriction code	Void Void Void Void
	 IMDG Limited quantities (LQ) Excepted quantities (EQ) IATA 	Void Void
	· Remarks:	Void

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· UN "Model Regulation":

Void

SECTION 15: Regulatory info	rmation			
· 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture				
(EC) No 1272/2008	The product is classified and labelled according to the CLP regulation.			
	GHS05			
· Signal word	Danger			
· Hazard-determining components of	2 shanayyathanal			
· Hazard statements	Halls Harmful to equate life with long leating affects			
· Precautionary statements	P273 Avoid release to the environment. P280 Wear eye protection / face protection. P295+P351+P338 IE IN EXES: Pince cautiously with water for several minutes. Pemere			
	P303+P30+P30 if NCEPE3. Nilse califoration 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 · Named dangerous substances -	νοια			
	None of the ingredients is listed.			
ANNEX XVII	Conditions of restriction: 3			
REGULATION (EU) 2019/1148				
PRECURSORS (Upper limit value for	n r			
the purpose of licensing under	None of the ingradiants is listed			
EXPLOSIVES PRECURSORS	None of the ingredients is listed.			
None of the ingredients is listed	g precursors			
Regulation (EC) No 111/2005 laying of the second seco	down rules for the monitoring of trade between the Community and third countries in			
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	on			
This information is based on our pre features and shall not establish a legal	sent knowledge. However, this shall not constitute a guarantee for any specific product ly valid contractual relationship.			
· Reasons for alterations	General revision. COMMISSION REGULATION (EU) 2020/878			
· 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. H335 May cause respiratory irritation.			

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H 4 IU	verv	/ LOXIC	to ac	Jualic	me	with	iona	iasunu	enecis

H411 Toxic to aquatic life with long lasting effects.

H412 Harmful to aquatic life with long lasting effects.



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Classification according to	(Contd. of page 7)
Regulation (EC) No 1272/2008	Calculation method Bridging principles
Department issuing SDS: Version number of previous version: Abbreviations and acronyms:	Department of technology: +49-(0)214/82511-21 7 REACH: Registration, Evaluation and Authorisation of Chemicals (regulation (EC) No 1907/2006) PBT: persistent, bioaccumulative, toxic VPS: very persistent, very bioaccumulative EC: European Community NLP: no longer polymers EINECS: European List of Notified 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: Occupational Exposure Limit OEL: Occupational Exposure Limit OEL: Occupational Exposure Limit OEL: Cecupational Exposure Limit Value OEL: Occupational Exposure Limit OEL: Cecupational Exposure Limit Value OEL: Occupational Exposure Limit OEL: Cecupational Exposure Limit OEL: Cecupational Exposure Limit OEL: Cecupational Exposure Limit OEL: Cecupational Exposure Limit VOC: Worktime Exposure Limit OEL: Cecupational Exposure Code of Page- Second Cecupational Exposure Limit NDE: Limit Abiotic Addition Compounds (USA, EC) ADR: Accord earopeen sure le transport des marchandises Dangereuses par Route (European Agreement concerning the International Advirtime Code for Dangerous Goods Jy Road) IMDG: International Advirtime Code for Dangerous Goods IAT: International Advirtime Code for Dangerous Goods IAT: International Advirtime Code for Dangerous Goods IAT: Internatio
Data compared to the previous	