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SEC	CTION 1: Identification of the subst	tance/mixture and of the company/undertaking	
1.1	Product identifier		
		22-466	
1.2	Relevant identified uses of the se	ubstance or mixture and uses advised against	
1.2.	1 Relevant uses		
		Ink	
1.2.2	2 Uses advised against		
		None known.	
1.3	Details of the supplier of the safe	ety data sheet	
	Company	Pelikan Hardcopy Production AG Haldenstrasse 28 8620 Wetzikon / SWITZERLAND Phone +41 (0) 44 9861-299	
	Address enquiries to		
	Technical information		
	Safety Data Sheet	sdb@chemiebuero.de	
1.4	Emergency telephone number		
	Company	+41 (0) 44 9861-299 Mo-Fr 8:00-17:00	
SEC	CTION 2: Hazards identification		
2.1	Classification of the substance of	or mixture	
		No classification.	
2.2	Label elements		
	Hazard pictograms		
	Hazard statements	none	
	Special labelling	EUH210 Safety data sheet available on request.	
2.3	Other hazards		
	Human health dangers	Frequent persistent contact with the skin can cause skin irritation.	
	Environmental hazards	Does not contain any PBT or vPvB substances.	
	Other hazards	Further hazards were not determined with the current level of knowledge.	

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SECTION 3: Composition / Information on ingredients

Product-type:

The product is a mixture.

Substance			
1 - <10 Ethylene glycol			
CAS: 107-21-1, EINECS/ELINCS: 203-473-3, EU-INDEX: 603-027-00-1			
GHS/CLP: Acute Tox. 4: H302 - STOT RE 2: H373			
2,2' -oxybisethanol			
CAS: 111-46-6, EINECS/ELINCS: 203-872-2, EU-INDEX: 603-140-00-6			
GHS/CLP: Acute Tox. 4: H302 - STOT RE 2: H373			
2-(2-Butoxyethoxy)ethanol			
CAS: 112-34-5, EINECS/ELINCS: 203-961-6, EU-INDEX: 603-096-00-8, Reg-No.: 01-2119475104-44-xxxx			
GHS/CLP: Eye Irrit. 2: H319			

Comment on component parts

Substances of Very High Concern - SVHC: substances are not contained or are below 0.1%. For full text of H-statements: see SECTION 16.

SECTION 4: First aid measures

4.1	1 Description of first aid measures	
	General information	Take off contaminated clothing and wash before reuse.
	Inhalation	Ensure supply of fresh air. In the event of symptoms seek medical treatment.
	Skin contact	When in contact with the skin, clean with soap and water. Consult a doctor if skin irritation persists.
	Eye contact	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
	Ingestion	Seek medical advice immediately. Rinse out mouth and give plenty of water to drink.
4.2	Most important symptoms and e	ffects, both acute and delayed
		Irritant effects
4.3	Indication of any immediate med	lical attention and special treatment needed
	Treat symptomatically.	
SEC	CTION 5: Fire-fighting measures	
5.1	Extinguishing media	
	Suitable extinguishing media	Product itself is non-combustible. Fire extinguishing method of surrounding areas must be considered.
	Extinguishing media that must not be used	Full water jet.
5.2	Special hazards arising from the	substance or mixture
		Risk of formation of toxic pyrolysis products. Not combusted hydrocarbons. Nitrogen oxides (NOx).
5.3	Advice for firefighters	
	-	Use self-contained breathing apparatus.
		Fire residues and contaminated firefighting water must be disposed of in accordance within the local regulations.

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SEC	CTION 6: Accidental release measu	ires		
6.1	Personal precautions, protective equipment and emergency procedures			
		High risk of slipping due to leakage/spilla Ensure adequate ventilation.	age of product.	
6.2	Environmental precautions			
		Prevent spread over a wide area (e.g. by Do not discharge into the drains/surface	· ·	
6.3	Methods and material for contain	nment and cleaning up		
		Take up mechanically. Take up residues with absorbent materia Dispose of absorbed material in accorda		binder).
6.4	Reference to other sections			
		See SECTION 8+13		
SEC	CTION 7: Handling and storage			
7.1	Precautions for safe handling			
		The normal safety precautions for handli	ing chemicals must be observed.	
		The product is not combustible.		
		Wash hands before breaks and after wo	ırk.	
		Use barrier skin cream. Take off contaminated clothing and was	h before reuse.	
		Do not eat, drink, smoke or take drugs a		
7.2	Conditions for safe storage, incl	uding any incompatibilities		
		Keep only in original container. Prevent penetration into the ground.		
		Do not store together with oxidizing ager Do not store together with food and anim		
		Keep container in a well-ventilated place Keep container tightly closed. Protect from heat/overheating.	<u>.</u>	
7.3	Specific end use(s)			
		See product use, SECTION 1.2		

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SECTION 8: Exposure controls / personal protection

8.1 **Control parameters**

Ingredients with occupational exposure limits to be monitored (GB)

Substance
Glycerol
CAS: 56-81-5, EINECS/ELINCS: 200-289-5
Long-term exposure: 10 mg/m ³ , (mist)
2-(2-Butoxyethoxy)ethanol
CAS: 112-34-5, EINECS/ELINCS: 203-961-6, EU-INDEX: 603-096-00-8, Reg-No.: 01-2119475104-44-xxxx
Long-term exposure: 10 ppm, 67,5 mg/m ³
Short-term exposure (15-minute): 15 ppm, 101,2 mg/m ³
2,2' -oxybisethanol
CAS: 111-46-6, EINECS/ELINCS: 203-872-2, EU-INDEX: 603-140-00-6
Long-term exposure: 23 ppm, 101 mg/m ³
Ethylene glycol
CAS: 107-21-1, EINECS/ELINCS: 203-473-3, EU-INDEX: 603-027-00-1
Long-term exposure: 20 ppm, 52 mg/m³, Vapour, particulate: 10 mg/m³
Short-term exposure (15-minute): 40 ppm, 104 mg/m ³

Ingredients with occupational

exposure limits to be monitored (EU)

Substance / EC LIMIT VALUES
2-(2-Butoxyethoxy)ethanol
CAS: 112-34-5, EINECS/ELINCS: 203-961-6, EU-INDEX: 603-096-00-8, Reg-No.: 01-2119475104-44-xxxx
Eight hours: 10 ppm, 67,5 mg/m ³
Short-term (15-minute): 15 ppm, 101,2 mg/m ³
Ethylene glycol
CAS: 107-21-1, EINECS/ELINCS: 203-473-3, EU-INDEX: 603-027-00-1
Eight hours: 20 ppm, 52 mg/m ³ , H
Short-term (15-minute): 40 ppm, 104 mg/m ³

DNEL

	Substance		
	2-(2-Butoxyethoxy)ethanol, CAS: 112-34-5		
	worker, inhalative, Long-term - systemic effects: 67,5 mg/m ³ .		
	worker, dermal, Long-term - systemic effects: 83 mg/kg bw/day.		
	worker, inhalative, Long-term - local effects: 67,5 mg/m ³ .		
	worker, inhalative, Acute - local effects: 101,2 mg/m ³ .		
	general population, inhalative, Acute - local effects: 60,7 mg/m ³ .		
	general population, inhalative, Long-term - systemic effects: 40,5 mg/m ³ .		
	general population, dermal, Long-term - systemic effects: 50 mg/kg bw/day.		
	general population, inhalative, Long-term - local effects: 40,5 mg/m ³ .		
	general population, oral, Long-term - systemic effects: 5 mg/kg bw/day.		
PNEC			
	Substance		
	2-(2-Butoxyethoxy)ethanol, CAS: 112-34-5		
	freshwater, 1,1 mg/l.		
	seawater, 0,11 mg/l.		

sediment (freshwater), 4,4 mg/kg.

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	sediment (seaater)	0,44 mg/kg.			
	sewage treatment	plants (STP), 200 mg/l.			
8.2 Exposure cont	posure controls				
Additional advic	e on system design		orkstation. workplace measurements must meet the perfe example, recommendations are given in the IF		
Eye protection		Safety glasses. (EN 166:2001)			
Hand protection		0,4mm butyl rubber, > 120 min (E The details concerned are recomm information.	N 374) nendations. Please contact the glove supplier	for further	
Skin protection		Protective clothing.			
Other		Avoid contact with eyes and skin.			
Respiratory prot	ection	Not required under normal condition	ons.		
Thermal hazards	5	none			
Delimitation and environmental e	monitoring of the xposition	Comply with applicable environme	ental regulations limiting discharge to air, wate	r and soil.	

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

information on basic physical and	i chemicai properties
Form	liquid
Color	red
Odor	characteristic
Odour threshold	not applicable
pH-value	8,14
pH-value [1%]	not determined
Boiling point [°C]	> 100
Flash point [°C]	not applicable
Flammability (solid, gas) [°C]	not applicable
Lower explosion limit	not applicable
Upper explosion limit	not applicable
Oxidising properties	no
Vapour pressure/gas pressure [kPa]	not determined
Density [g/ml]	1,08 (25°C / 77,0°F)
Bulk density [kg/m³]	not applicable
Solubility in water	miscible
Partition coefficient [n-octanol/water]	not determined
Viscosity	2,47 mm²/s (25°C)
Relative vapour density determined in air	not applicable
Evaporation speed	not applicable
Melting point [°C]	< 0
Autoignition temperature [°C]	not applicable
Decomposition temperature [°C]	not determined
Other information	
	none

SECTION 10: Stability and reactivity

10.1 Reactivity

9.2

No dangerous reactions known if used as directed.

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10.2 Chemical stability

The product is stable under standard conditions.

10.3 Possibility of hazardous reactions

Reactions with strong oxidizing agents.

10.4 Conditions to avoid

See SECTION 7.2.

10.5 Incompatible materials

Oxidizing agent

10.6 Hazardous decomposition products

No hazardous decomposition products known.

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SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Product	
ATE-mix, inhalative, > 20 mg/l 4h.	
ATE-mix, dermal, > 2000 mg/kg.	
ATE-mix, oral, > 2000 mg/kg.	

Substance
2-(2-Butoxyethoxy)ethanol, CAS: 112-34-5
LD50, dermal, Rabbit: 4000 mg/kg.
LD50, oral, Rat: 5660 mg/kg.
Ethylene glycol, CAS: 107-21-1
LD50, dermal, Rabbit: 10600 mg/kg bw.
LD50, oral, Rat: 4700 mg/kg bw.
2,2' -oxybisethanol, CAS: 111-46-6
LD50, dermal, Rabbit: 13300 mg/kg.
LD50, oral, Rat (male): 19600 mg/kg.
LC50, inhalative, Rat: > 4,6 mg/l 4h.

Based on the available information, the classification criteria are not fulfilled. Toxicological data of complete product are not available.Respiratory or skin sensitisationDoes not contain a relevant substance that meets the classification criteria. Based on the available information, the classification criteria are not fulfilled. Toxicological data of complete product are not available.Specific target organ toxicity — single exposureDoes not contain a relevant substance that meets the classification criteria. Based on the available information, the classification criteria are not fulfilled. Toxicological data of complete product are not available.Specific target organ toxicity — repeated exposureBased on the available information, the classification criteria are not fulfilled. Toxicological data of complete product are not available.MutagenicityDoes not contain a relevant substance that meets the classification criteria. Based on the available information, the classification criteria are not fulfilled. Toxicological data of complete product are not available.Reproduction toxicityDoes not contain a relevant substance that meets the classification criteria. Based on the available information, the classification criteria are not fulfilled. Toxicological data of complete product are not available.Reproduction toxicityDoes not contain a relevant substance that meets the classification criteria. Based on the available information, the classification criteria are not fulfilled. Toxicological data of complete product are not available.CarcinogenicityDoes not contain a relevant substance that meets the classification criteria. Based on the available information, the classification criteria are not fulfilled. Toxicological data of complete product are not	Serious eye damage/irritation	Based on the available information, the classification criteria are not fulfilled. Toxicological data of complete product are not available.
Based on the available information, the classification criteria are not fulfilled. Toxicological data of complete product are not available.Specific target organ toxicity — single exposureDoes not contain a relevant substance that meets the classification criteria. Based on the available information, the classification criteria are not fulfilled. 	Skin corrosion/irritation	Based on the available information, the classification criteria are not fulfilled.
single exposureBased on the available information, the classification criteria are not fulfilled. Toxicological data of complete product are not available.Specific target organ toxicity — repeated exposureBased on the available information, the classification criteria are not fulfilled. Toxicological data of complete product are not available.MutagenicityDoes not contain a relevant substance that meets the classification criteria. Based on the available information, the classification criteria are not fulfilled. Toxicological data of complete product are not available.Reproduction toxicityDoes not contain a relevant substance that meets the classification criteria. Based on the available information, the classification criteria are not fulfilled. Toxicological data of complete product are not available.Reproduction toxicityDoes not contain a relevant substance that meets the classification criteria. Based on the available information, the classification criteria are not fulfilled. Toxicological data of complete product are not available.CarcinogenicityDoes not contain a relevant substance that meets the classification criteria. Based on the available information, the classification criteria are not fulfilled. Toxicological data of complete product are not available.Aspiration hazardDoes not contain a relevant substance that meets the classification criteria. Based on the available information, the classification criteria are not fulfilled. Toxicological data of complete product are not available.	Respiratory or skin sensitisation	Based on the available information, the classification criteria are not fulfilled.
repeated exposureToxicological data of complete product are not available.MutagenicityDoes not contain a relevant substance that meets the classification criteria. Based on the available information, the classification criteria are not fulfilled. Toxicological data of complete product are not available.Reproduction toxicityDoes not contain a relevant substance that meets the classification criteria. Based on the available information, the classification criteria are not fulfilled. Toxicological data of complete product are not available.CarcinogenicityDoes not contain a relevant substance that meets the classification criteria. Based on the available information, the classification criteria are not fulfilled. Toxicological data of complete product are not available.CarcinogenicityDoes not contain a relevant substance that meets the classification criteria. Based on the available information, the classification criteria are not fulfilled. Toxicological data of complete product are not available.Aspiration hazardDoes not contain a relevant substance that meets the classification criteria.	Specific target organ toxicity — single exposure	Based on the available information, the classification criteria are not fulfilled.
Based on the available information, the classification criteria are not fulfilled. Toxicological data of complete product are not available.Reproduction toxicityDoes not contain a relevant substance that meets the classification criteria. Based on the available information, the classification criteria are not fulfilled. Toxicological data of complete product are not available.CarcinogenicityDoes not contain a relevant substance that meets the classification criteria. Based on the available information, the classification criteria are not fulfilled. Toxicological data of complete product are not available.CarcinogenicityDoes not contain a relevant substance that meets the classification criteria. Based on the available information, the classification criteria are not fulfilled. Toxicological data of complete product are not available.Aspiration hazardDoes not contain a relevant substance that meets the classification criteria.	Specific target organ toxicity — repeated exposure	
Based on the available information, the classification criteria are not fulfilled. Toxicological data of complete product are not available.CarcinogenicityDoes not contain a relevant substance that meets the classification criteria. Based on the available information, the classification criteria are not fulfilled. Toxicological data of complete product are not available.Aspiration hazardDoes not contain a relevant substance that meets the classification criteria.	Mutagenicity	Based on the available information, the classification criteria are not fulfilled.
Based on the available information, the classification criteria are not fulfilled. Toxicological data of complete product are not available.Aspiration hazardDoes not contain a relevant substance that meets the classification criteria.	Reproduction toxicity	Based on the available information, the classification criteria are not fulfilled.
	Carcinogenicity	Based on the available information, the classification criteria are not fulfilled.
General remarks	Aspiration hazard	Does not contain a relevant substance that meets the classification criteria.
	General remarks	

none

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SECTION 12: Ecological information

12.1 Toxicity

Substance	
2-(2-Butoxyethoxy)ethanol, CAS: 112-34-5	
LC50, (96h), Lepomis macrochirus: 1300 mg/l (IUCLID).	
EC50, (48h), Daphnia magna: > 100 mg/l (IUCLID).	
Ethylene glycol, CAS: 107-21-1	
LC50, (96h), Pimephales promelas: >10000 mg/l.	
EC50, (72h), Pseudokirchneriella subcapitata: >1000 mg/l.	
EC50, (48h), Daphnia magna: 34440 mg/l.	
NOEC, Daphnia magna: 24000 mg/l.	
NOEC, fish: 6090 mg/l.	
2,2' -oxybisethanol, CAS: 111-46-6	
LC50, (96h), Pimephales promelas: 75200 mg/l.	
EC50, (96h), Pseudokirchneriella subcapitata: > 100 mg/l.	
EC50, (48h), Daphnia magna: 48900 mg/l.	

12.2 Persistence and degradability

Behaviour in environment compartments	not determined
Behaviour in sewage plant	not determined
Biological degradability	not determined

12.3 Bioaccumulative potential

Accumulation in organisms is not expected.

12.4 Mobility in soil

Spillages may penetrate the soil causing ground water contamination.

12.5 Results of PBT and vPvB assessment

Based on all available information not to be classified as PBT or vPvB respectively.

12.6 Other adverse effects

None known.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Waste material must be disposed of in accordance with the Directive on waste 2008/98/EC as well as other national and local regulations. It is not possible to determine a waste code for this product in accordance with the European Waste Catalogue (EWC) since it is only possible to classify it according to how it is used by the customer. The waste code is to be determined within the EU in liaison with the waste-disposal operator.

Product

Waste no. (recommended)	Uncontaminated packaging may be taken for recycling. 150102
Contaminated packaging	Packaging that cannot be cleaned should be disposed of as for product.
Waste no. (recommended)	080313
	Coordinate disposal with the authorities if necessary.

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SEC	SECTION 14: Transport information		
14 1	4.1 UN number		
14.1	Transport by land according to ADR/RID	not applicable	
	Inland navigation (ADN)	not applicable	
	Marine transport in accordance with IMDG	not applicable	
	Air transport in accordance with IATA	not applicable	
14.2	UN proper shipping name		
	Transport by land according to ADR/RID	NO DANGEROUS GOODS	
	Inland navigation (ADN)	NO DANGEROUS GOODS	
	Marine transport in accordance with IMDG	NOT CLASSIFIED AS "DANGEROUS GOODS"	
	Air transport in accordance with IATA	NOT CLASSIFIED AS "DANGEROUS GOODS"	
14.3	Transport hazard class(es)		
	Transport by land according to ADR/RID	not applicable	
	Inland navigation (ADN)	not applicable	
	Marine transport in accordance with IMDG	not applicable	
	Air transport in accordance with IATA	not applicable	
14.4	Packing group Transport by land according to ADR/RID	not applicable	
	Inland navigation (ADN)	not applicable	
	Marine transport in accordance with IMDG	not applicable	
	Air transport in accordance with IATA	not applicable	

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14.5	Environmental hazards			
	Transport by land according to ADR/RID	no		
	Inland navigation (ADN)	no		
	Marine transport in accordance with IMDG	no		
	Air transport in accordance with IATA	no		
14.6	Special precautions for user			
	Relevant information under SECTION 6	to 8.		
14.7	Transport in bulk according to A	nnex II of MARPOL and the IBC C	ode	
	not applicable			
SEC	TION 15: Regulatory information			
15.1	1 Safety, health and environmental regulations/legislation specific for the substance or mixture			
	EEC-REGULATIONS		42; 648/2004; 1907/2006 (REACH); 127	2/2008;
	TRANSPORT-REGULATIONS	DOT-Classification, ADR (2015); IMD	G-Code (2015, 37. Amdt.); IATA-DGR (2016).
	NATIONAL REGULATIONS (GB):	EH40/2005 Workplace exposure limits CHIP 3/ CHIP 4	s (Second edition, published December	2011).
	- Observe employment restrictions for people	none		
	- VOC (2010/75/CE)	< 1 %		
15.2	Chemical safety assessment			
		not applicable		

16.1 Hazard statements

(SECTION 03)

H319 Causes serious eye irritation. H373 May cause damage to organs through prolonged or repeated exposure if swallowed. (kidneys)

H373 May cause damage to organs through prolonged or repeated exposure. H302 Harmful if swallowed.

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16.2 Abbreviations and acronyms:	
-	ADR = Accord européen relatif au transport international des marchandises Dangereuses par
	Route RID = Règlement concernant le transport international ferroviaire de marchandises
	dangereuses
	ADN = Accord européen relatif au transport international des marchandises dangereuses par voie de navigation intérieure
	CAS = Chemical Abstracts Service CLP = Classification, Labelling and Packaging
	DMEL = Derived Minimum Effect Level
	DNEL = Derived No Effect Level EC50 = Median effective concentration
	ECB = European Chemicals Bureau EEC = European Economic Community
	EINECS = European Inventory of Existing Commercial Chemical Substances
	ELINCS = European List of Notified Chemical Substances GHS = Globally Harmonized System of Classification and Labelling of Chemicals
	IATA = International Air Transport Association
	IBC-Code = International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk
	IC50 = Inhibition concentration, 50% IMDG = International Maritime Code for Dangerous Goods
	IUCLID = International Uniform ChemicaL Information Database
	LC50 = Lethal concentration, 50% LD50 = Median lethal dose
	MARPOL = International Convention for the Prevention of Marine Pollution from Ships
	PBT = Persistent, Bioaccumulative and Toxic substance PNEC = Predicted No-Effect Concentration
	REACH = Registration, Evaluation, Authorisation and Restriction of Chemicals TLV®/TWA = Threshold limit value – time-weighted average
	TLV®STEL = Threshold limit value – short-time exposure limit
	VOC = Volatile Organic Compounds vPvB = very Persistent and very Bioaccumulative
6.3 Other information	
Classification procedure	
Modified position	SECTION 15 been added: EUH210 Safety data sheet available on request.
	SECTION 2 deleted: P501 Dispose of contents/container to in accordance with local/regional/national/international regulation.
	SECTION 2 deleted: P314 Get medical advice / attention if you feel unwell.
	SECTION 2 deleted: P102 Keep out of reach of children.
	SECTION 2 deleted: P101 If medical advice is needed, have product container or label at hand.
	SECTION 2 deleted: STOT RE 2
	SECTION 2 deleted: H373 May cause damage to organs through prolonged or repeated exposure if swallowed. (kidneys)
	SECTION 2 deleted: WARNING
	SECTION 2 deleted: health hazard
	SECTION 8 been added: Measurement methods for taking workplace measurements must meet the performance requirements of DIN EN 482. For example, recommendations are given in the IFA's list of hazardous substances.
	SECTION 12 been added: Spillages may penetrate the soil causing ground water contamination.
	SECTION 13 been added:
	SECTION 16 deleted: Observe employment restrictions for mothers-to-be and nursing mothers. Observe employment restrictions for young people.
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