

**StarMinen AG**  
8280 Kreuzlingen

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

### 1.1 Product identifier

**Germanstar Ink blue 130....**

### 1.2 Relevant identified uses of the substance or mixture and uses advised against

#### 1.2.1 Relevant uses

writing instruments

#### 1.2.2 Uses advised against

None known.

### 1.3 Details of the supplier of the safety data sheet

**Company** StarMinen AG  
Romanshorner Str. 110  
8280 Kreuzlingen / SWITZERLAND  
Phone +41 (0)71-6868 930  
Fax +41 (0)71-6868 937-38  
Homepage www.starminen.ch  
E-mail contact@starminen.ch

#### Address enquiries to

**Technical information** contact@starminen.ch  
**Safety Data Sheet** sdb@chemiebuero.de

### 1.4 Emergency telephone number

**Advisory body** +49 (0)89-19240 (24h) (English)  
**Company** +41 (0)71-6868 930

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture [REGULATION (EC) No 1272/2008]

Acute Tox. 4: H302 Harmful if swallowed.  
Eye Dam. 1: H318 Causes serious eye damage.  
Aquatic Chronic 2: H411 Toxic to aquatic life with long lasting effects.

### 2.2 Label elements

The product is required to be labelled in accordance with regulation (EC) No 1272/2008 (CLP).

#### Hazard pictograms



#### Signal word

DANGER

#### Contains:

2-Phenoxyethanol  
Benzyl alcohol  
C.I. Solvent Blue 43

#### Hazard statements

H302 Harmful if swallowed.  
H318 Causes serious eye damage.  
H411 Toxic to aquatic life with long lasting effects.

#### Precautionary statements

P273 Avoid release to the environment.  
P280 Wear protective gloves / 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/national regulation.

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## 2.3 Other hazards

### Environmental hazards

Does not contain any PBT or vPvB substances.

### Other hazards

Further hazards were not determined with the current level of knowledge.

## SECTION 3: Composition / Information on ingredients

### Product-type:

The product is a mixture.

Range [%]	Substance
10 - 50	2-Phenoxyethanol CAS: 122-99-6, EINECS/ELINCS: 204-589-7, EU-INDEX: 603-098-00-9, Reg-No.: 01-2119488943-21-XXXX GHS/CLP: Acute Tox. 4: H302 - Eye Irrit. 2: H319
1 - < 40	Benzyl alcohol CAS: 100-51-6, EINECS/ELINCS: 202-859-9, EU-INDEX: 603-057-00-5 GHS/CLP: Acute Tox. 4: H302 H332
1 - 10	Oleic acid CAS: 112-80-1, EINECS/ELINCS: 204-007-1
1 - < 10	Tri aryl methane dye, Solvent Violet 8 CAS: 52080-58-7, EINECS/ELINCS: 282-630-8 GHS/CLP: Acute Tox. 4: H302 - Eye Irrit. 2: H319
1 - < 10	C.I. Solvent Blue 43 CAS: 61813-75-0, EINECS/ELINCS: 220-168-0, Reg-No.: 01-2119863103-46-XXXX GHS/CLP: Eye Dam. 1: H318 - STOT SE 3: H335 - Aquatic Acute 1: H400 - Aquatic Chronic 1: H410, M = 1
< 3	(Z)-N-methyl-N-(1-oxo-9-octadecenyl)glycine CAS: 110-25-8, EINECS/ELINCS: 203-749-3 GHS/CLP: Acute Tox. 4: H332 - Skin Irrit. 2: H315 - Eye Dam. 1: H318 - Aquatic Acute 1: H400, M = 1
<0,1	Michler's ketone CAS: 90-94-8, EINECS/ELINCS: 202-027-5, EU-INDEX: 606-073-00-0 GHS/CLP: Eye Dam. 1: H318 - Muta. 2: H341 - Carc. 1B: H350

### 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 Description of first aid measures

#### General information

Remove contaminated soaked clothing immediately and dispose of safely.

#### Inhalation

Ensure supply of fresh air.  
In the event of symptoms seek medical treatment.

#### Skin contact

In case of contact with skin wash off immediately 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.  
Seek medical advice immediately.

#### Ingestion

Rinse out mouth and give plenty of water to drink.  
Do not induce vomiting.  
Consult a doctor immediately.

### 4.2 Most important symptoms and effects, both acute and delayed

Headache  
Gastro-intestinal complains.  
Irritant effects

### 4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

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## SECTION 5: Fire-fighting measures

### 5.1 Extinguishing media

**Suitable extinguishing media** Carbon dioxide.  
Water spray jet.  
Dry powder.  
Foam.

**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.

### 5.3 Advice for firefighters

Use self-contained breathing apparatus.

Fire residues and contaminated firefighting water must be disposed of in accordance with the local regulations.

## SECTION 6: Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures

High risk of slipping due to leakage/spillage of product.

Ensure adequate ventilation.

Use personal protective equipment (protective gloves, safety glasses, protective clothing).

### 6.2 Environmental precautions

Prevent spread over a wide area (e.g. by containment or oil barriers).

Do not discharge into the drains/surface waters/groundwater.

### 6.3 Methods and material for containment and cleaning up

Take up with absorbent material (e.g. sand, sawdust).

Dispose of absorbed material in accordance with the regulations.

### 6.4 Reference to other sections

See SECTION 8+13

## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

Use only in well-ventilated areas.

Provide suitable vacuuming at the processing machines.

The product is combustible.

Do not eat, drink or smoke when using this product.

Take off contaminated clothing and wash before reuse.

Clean skin thoroughly after work, apply skin cream.

Wash hands before breaks and after work.

### 7.2 Conditions for safe storage, including any incompatibilities

Provide solvent-resistant and impermeable floor.

Keep only in original container.

Prevent penetration into the ground.

Do not store together with oxidizing agents.

Do not store together with food and animal food/diet.

Keep container tightly closed.

Keep container in a well-ventilated place.

### 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**

**DNEL**

Substance
2-Phenoxyethanol, CAS: 122-99-6
Industrial, dermal, Long-term - systemic effects: 34,72 mg/kg.
Industrial, inhalative, Long-term - systemic effects: 8,07 mg/m <sup>3</sup> .
general population, dermal, Long-term - local effects: 20,83 mg/kg.
general population, oral, Long-term - systemic effects: 17,43 mg/kg.
general population, oral, Acute - systemic effects: 17,43 mg/kg.
general population, inhalative, Long-term - local effects: 2,5 mg/m <sup>3</sup> .
general population, inhalative, Acute - local effects: 2,5 mg/m <sup>3</sup> .
(Z)-N-methyl-N-(1-oxo-9-octadecenyl)glycine, CAS: 110-25-8
Industrial, dermal, Long-term - systemic effects: 10 mg/kg bw/d.
Industrial, inhalative, Long-term - systemic effects: 0,2 mg/m <sup>3</sup> .
Industrial, inhalative, Long-term - local effects: 0,01 mg/m <sup>3</sup> .
Industrial, dermal, Acute - local effects: 100 mg/kg bw/d.
Industrial, inhalative, Acute - local effects: 18 mg/m <sup>3</sup> .
general population, oral, Acute - local effects: 92 mg/kg bw/d.
general population, inhalative, Long-term - systemic effects: 0,1 mg/m <sup>3</sup> .
general population, inhalative, Acute - local effects: 9 mg/m <sup>3</sup> .
general population, inhalative, Long-term - local effects: 5 µg/m <sup>3</sup> .
general population, dermal, Long-term - systemic effects: 5 mg/kg bw/d.
general population, dermal, Acute - local effects: 50 mg/kg bw/d.
general population, oral, Long-term - systemic effects: 5 mg/kg bw/d.

**PNEC**

Substance
2-Phenoxyethanol, CAS: 122-99-6
sediment (seawater), 0,7237 mg/kg.
sediment (freshwater), 7,2366 mg/kg.
soil, 1,26 mg/kg.
sewage treatment plants (STP), 24,8 mg/l.
seawater, 0,0943 mg/l.
freshwater, 0,943 mg/l.
(Z)-N-methyl-N-(1-oxo-9-octadecenyl)glycine, CAS: 110-25-8
sewage treatment plants (STP), 13 mg/l.
seawater, 0,043 µg/l.
freshwater, 0,43 µg/l.

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## 8.2 Exposure controls

<b>Additional advice on system design</b>	Ensure adequate ventilation on workstation.
<b>Eye protection</b>	Tightly fitting goggles. (EN 166:2001)
<b>Hand protection</b>	0,7 mm; Butyl rubber, >480 min (EN 374-1/-2/-3). The details concerned are recommendations. Please contact the glove supplier for further information.
<b>Skin protection</b>	Protective clothing.
<b>Other</b>	Avoid contact with eyes and skin. Personal protective equipment should be selected specifically for the working place, depending on concentration and quantity handled. The resistance of this equipment to chemicals should be ascertained with the respective supplier.
<b>Respiratory protection</b>	Respiratory protection mask in the event of high concentrations. Short term: filter apparatus, combination filter A-P2. (DIN EN 14387)
<b>Thermal hazards</b>	no
<b>Delimitation and monitoring of the environmental exposition</b>	Comply with applicable environmental regulations limiting discharge to air, water and soil.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

<b>Form</b>	liquid
<b>Color</b>	dark blue
<b>Odor</b>	characteristic
<b>Odour threshold</b>	not applicable
<b>pH-value</b>	6,5 - 8
<b>pH-value [1%]</b>	6,5 - 8
<b>Boiling point [°C]</b>	185
<b>Flash point [°C]</b>	>100
<b>Flammability (solid, gas) [°C]</b>	not applicable
<b>Lower explosion limit</b>	1,0 Vol. %
<b>Upper explosion limit</b>	12,5 Vol. %
<b>Oxidising properties</b>	no
<b>Vapour pressure/gas pressure [kPa]</b>	0,01 (20°C)
<b>Density [g/ml]</b>	1,13 - 1,18 (20 °C / 68,0 °F)
<b>Bulk density [kg/m³]</b>	not applicable
<b>Solubility in water</b>	immiscible
<b>Partition coefficient [n-octanol/water]</b>	not determined
<b>Viscosity</b>	< 2000 mPa.s (40°C)
<b>Relative vapour density determined in air</b>	not applicable
<b>Evaporation speed</b>	not applicable
<b>Melting point [°C]</b>	< 0
<b>Autoignition temperature [°C]</b>	not determined
<b>Decomposition temperature [°C]</b>	< 350

### 9.2 Other information

none

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

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, oral, 1700 - < 2000 mg/kg.
ATE-mix, inhalative, > 20 mg/l 4h.
Substance
Benzyl alcohol, CAS: 100-51-6
LD50, dermal, Rabbit: 2000 mg/kg bw (RTECS).
LD50, oral, Rat: 1230 mg/kg bw (IUCLID).
LC50, inhalative, Rat: 4,178 mg/l/4h (OECD TG 403).
LC50, inhalative, Rat: 8,8 mg/l (4h) (IUCLID).
C.I. Solvent Blue 43, CAS: 61813-75-0
LD50, oral, Rat: > 2000 mg/kg.
2-Phenoxyethanol, CAS: 122-99-6
LD50, dermal, Rabbit: 5000 mg/kg.
LD50, oral, Rat: 2740 mg/kg.
(Z)-N-methyl-N-(1-oxo-9-octadecenyl)glycine, CAS: 110-25-8
LD50, oral, Rat: > 5000 mg/kg (OECD 420).
LC50, inhalative, Rat: 1,8 mg/l 4h (Aerosol, OECD 403).
Oleic acid, CAS: 112-80-1
LD50, oral, Rat: > 2000 mg/kg.

<b>Serious eye damage/irritation</b>	Risk of serious damage to eyes. Based on the available information, the classification criteria are fulfilled. Calculation method
<b>Skin corrosion/irritation</b>	Based on the available information, the classification criteria are not fulfilled.
<b>Respiratory or skin sensitisation</b>	Based on the available information, the classification criteria are not fulfilled.
<b>Specific target organ toxicity — single exposure</b>	Based on the available information, the classification criteria are not fulfilled.
<b>Specific target organ toxicity — repeated exposure</b>	Based on the available information, the classification criteria are not fulfilled.
<b>Mutagenicity</b>	Based on the available information, the classification criteria are not fulfilled.
<b>Reproduction toxicity</b>	Based on the available information, the classification criteria are not fulfilled.
<b>Carcinogenicity</b>	Based on the available information, the classification criteria are not fulfilled.
<b>Aspiration hazard</b>	Based on the available information, the classification criteria are not fulfilled.
<b>General remarks</b>	

Toxicological data of complete product are not available.  
 The toxicity data listed pertaining to the ingredients are intended for those working in the medicinal professions, experts for occupational health and safety and toxicologists. The toxicity data pertaining to the ingredients were supplied by the manufacturers of raw materials.

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## SECTION 12: Ecological information

### 12.1 Toxicity

Substance
Benzyl alcohol, CAS: 100-51-6
LC50, (96h), <i>Lepomis macrochirus</i> : 10 mg/l (IUCLID).
EC50, Bacteria: 71,4 mg/l (0,5 h) (IUCLID).
EC50, (24h), <i>Daphnia magna</i> : 400 mg/l (IUCLID).
C.I. Solvent Blue 43, CAS: 61813-75-0
EC50, (72h), <i>Pseudokirchneriella subcapitata</i> : 1,8 mg/l.
EC50, (48h), <i>Daphnia magna</i> : 0,13 mg/l.
NOEC, (72h), <i>Pseudokirchneriella subcapitata</i> : 0,66 mg/l.
NOEC, (48h), <i>Daphnia magna</i> : 0,023 mg/l.
2-Phenoxyethanol, CAS: 122-99-6
LC50, (96h), <i>Pimephales promelas</i> : 344 mg/l.
EC50, (72h), <i>Scenedesmus subspicatus</i> : > 500 mg/l.
(Z)-N-methyl-N-(1-oxo-9-octadecenyl)glycine, CAS: 110-25-8
LC50, (96h), <i>Leuciscus idus</i> : 1 - 10 mg/l.
EC50, (72h), <i>Scenedesmus subspicatus</i> : 6,3 mg/l.
EC50, (48h), <i>Daphnia magna</i> : 0,43 mg/l (OECD 202).

### 12.2 Persistence and degradability

<b>Behaviour in environment compartments</b>	No information available.
<b>Behaviour in sewage plant</b>	No information available.
<b>Biological degradability</b>	No information available.

### 12.3 Bioaccumulative potential

not determined

### 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

The toxicity data pertaining to the ingredients were supplied by the manufacturers of raw materials.  
Do not discharge product unmonitored into the environment or into the drainage.



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### SECTION 13: Disposal considerations

#### 13.1 Waste treatment methods

Waste material c 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

Dispose of as hazardous waste.  
 Disposal in an incineration plant in accordance with the regulations of the local authorities.

**Waste no. (recommended)** 080111\*

##### Contaminated packaging

Uncontaminated packaging may be taken for recycling.  
 Packaging that cannot be cleaned should be disposed of as for product.

**Waste no. (recommended)** 150110\*

### SECTION 14: Transport information

#### 14.1 UN number

**Transport by land according to ADR/RID** 3082

**Inland navigation (ADN)** 3082

**Marine transport in accordance with IMDG** 3082

**Air transport in accordance with IATA** 3082

#### 14.2 UN proper shipping name

**Transport by land according to ADR/RID** Environmentally hazardous substance, liquid, n.o.s. (contains C.I. Solvent Blue 43)

- Classification Code M6

- Label



- ADR LQ 5 I

- ADR 1.1.3.6 (8.6) Transport category (tunnel restriction code) 3 (E)

**Inland navigation (ADN)** Environmentally hazardous substance, liquid, n.o.s. (contains C.I. Solvent Blue 43)

- Classification Code M6

- Label



**Marine transport in accordance with IMDG** Environmentally hazardous substance, liquid, n.o.s. (contains C.I. Solvent Blue 43)

- EMS F-A, S-F

- Label



- IMDG LQ 5 I

**Air transport in accordance with IATA** Environmentally hazardous substance, liquid, n.o.s. (contains C.I. Solvent Blue 43)

- Label



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#### 14.3 Transport hazard class(es)

Transport by land according to ADR/RID 9

Inland navigation (ADN) 9

Marine transport in accordance with IMDG 9

Air transport in accordance with IATA 9

#### 14.4 Packing group

Transport by land according to ADR/RID III

Inland navigation (ADN) III

Marine transport in accordance with IMDG III

Air transport in accordance with IATA III

#### 14.5 Environmental hazards

Transport by land according to ADR/RID yes

Inland navigation (ADN) yes

Marine transport in accordance with IMDG MARINE POLLUTANT

Air transport in accordance with IATA yes

#### 14.6 Special precautions for user

Relevant information under SECTION 6 to 8.

#### 14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code

not determined

### SECTION 15: Regulatory information

#### 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

EEC-REGULATIONS 1991/689 (2001/118); 2010/75; 2004/42; 648/2004; 1907/2006 (REACH); 1272/2008; 75/324/EEC (2016/2037/EC); (EU) 2015/830; (EU) 2016/131; (EU) 517/2014

TRANSPORT-REGULATIONS DOT-Classification, ADR (2017); IMDG-Code (2017, 38. Amdt.); IATA-DGR (2018).

##### NATIONAL REGULATIONS (EU):

- Observe employment restrictions for people Observe employment restrictions for mothers-to-be and nursing mothers. Observe employment restrictions for young people.

- VOC (2010/75/CE) > 30 %

#### 15.2 Chemical safety assessment

For this product a chemical safety assessment has not been carried out.

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**SECTION 16: Other information****16.1 Hazard statements  
(SECTION 03)**

H350 May cause cancer.  
 H341 Suspected of causing genetic defects.  
 H315 Causes skin irritation.  
 H332 Harmful if inhaled.  
 H410 Very toxic to aquatic life with long lasting effects.  
 H400 Very toxic to aquatic life.  
 H335 May cause respiratory irritation.  
 H318 Causes serious eye damage.  
 H302+H332 Harmful if swallowed or if inhaled.  
 H319 Causes serious eye irritation.  
 H302 Harmful if swallowed.

**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  
 ATE = acute toxicity estimate  
 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  
 LC0 = lethal concentration, 0%  
 LOAEL = lowest-observed-adverse-effect level  
 MARPOL = International Convention for the Prevention of Marine Pollution from Ships  
 NOAEL = No Observed Adverse Effect Level  
 NOEC = No Observed Effect Concentration  
 PBT = Persistent, Bioaccumulative and Toxic substance  
 PNEC = Predicted No-Effect Concentration  
 REACH = Registration, Evaluation, Authorisation and Restriction of Chemicals  
 STP = Sewage Treatment Plant  
 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

**16.3 Other information****Classification procedure**

Acute Tox. 4: H302 Harmful if swallowed. (Calculation method)  
 Eye Dam. 1: H318 Causes serious eye damage. (Calculation method)  
 Aquatic Chronic 2: H411 Toxic to aquatic life with long lasting effects. (Calculation method)

**Modified position**

SECTION 2 been added: The product is required to be labelled in accordance with regulation (EC) No 1272/2008 (CLP).



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