Safety Data Sheet
according to Regulation (EC) No. 1907/2006 (REACH)
according to Regulation (EU) No 453/2010

drstraetmans

1. Identification of the substance/ preparation and of the company/ undertaking

1.1. **Product identifiers:**

Article no. (manufacturer / supplier): 14153
Identification of the substance or preparation: Verstatil PC

1.2. **Relevant identified uses of the substance or mixture and uses advised against**
Raw material for cosmetics

1.3. **Details of the supplier of the safety data sheet**

Supplier (manufacturer/importer/downstream user/distributor):
Dr. Straetmans GmbH
Merkurring 60 - 62
22143 Hamburg
Telephone: + 49 - (0)40 - 6693560
Telefax: + 49 - (0)40 - 669356310

Dept. responsible for information:
Laboratory + 49 - (0)40 - 6693560
E-mail: labor@dr-straetmans.de

1.4. **Emergency telephone:**
Emergency telephone: + 49 - (0)40 - 6693560
Only available during office hours.

2. Hazards identification

2.1. **Classification of the substance or mixture**

Classification according to EC regulation 1272/2008 (CLP):

This mixture is classified as hazardous according to regulation (EC) No. 1272/2008 [CLP].

Acute Tox. 4 / H302	Acute toxicity (oral):	Harmful if swallowed.
Eye Irrit. 2 / H319	Serious eye damage/eye irritation:	Causes serious eye irritation.

Classification according to Directive 67/548/EEC or 1999/45/EC

The preparation is dangerous in the sense of Directive 1999/45/EC.

Xn; R22	Harmful	Harmful if swallowed.
Xi; R36	Irritant	Irritating to eyes.

2.2. **Label elements**

Labelling (CLP)

Hazard pictograms

Warning

Hazard Statements:

H302	Harmful if swallowed.
H319	Causes serious eye irritation.

Safety precautions:

P280	Wear protective gloves/protective clothing/eye protection/face protection.
P301 + P312	IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P330	Rinse mouth.
P337 + P313	If eye irritation persists: Get medical advice/attention.

contains:

2-phenoxyethanol
Octane-1,2-diol

Supplemental Hazard information (EU):
not applicable

Labelling (67/548/EEC or 1999/45/EC)

Xn Harmful

Hazard Statements:

22 Harmful if swallowed.
36 Irritating to eyes.

Safety precautions:

26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

contains:

2-phenoxyethanol
Octane-1,2-diol (INCI: Caprylyl Glycol)

Special provisions concerning the labelling of certain mixtures

not applicable

2.3. **Other hazards**

3. Composition/ Information on ingredients

3.2. **Mixtures**

chemical characterization (preparation)

Description: INCI: Phenoxyethanol; Caprylyl Glycol

Hazardous ingredients:

Classification according to EC regulation 1272/2008 (CLP):

EC No: CAS No.: INDEX no.:	REACH No: chemical name: classification:	% by weight Remark:
204-589-7 122-99-6 603-098-00-9	unknown 2-phenoxyethanol Acute Tox. 4 H302 / Eye Irrit. 2 H319	50 - 100
214-254-7 1117-86-8	Pre-Reg 05-2114084305-51-0000 Octane-1,2-diol Eye Irrit. 2 H319	5 - 10

Classification according to Directive 67/548/EEC or 1999/45/EC

EC No: CAS No.: INDEX no.:	REACH No: Identification of the hazard: classification:	% by weight Remark:
204-589-7 122-99-6 603-098-00-9	unknown 2-phenoxyethanol Xn; R22 / Xi; R36	50 - 100
214-254-7 1117-86-8	Pre-Reg 05-2114084305-51-0000 Octane-1,2-diol (INCI: Caprylyl Glycol) Xi; R36	5 - 10

Additional information

Full text of R- and H-phrases: see section 16.

4. First-aid measures

4.1. **Description of first aid measures:**

General information:

In all cases of doubt, or when symptoms persist, seek medical advice. In case of unconsciousness give nothing by mouth, place in unconscious position and seek medical advice.

After inhalation

Move victim to fresh air. Put victim at rest and keep warm. In case of irregular breathing or respiratory arrest provide artificial respiration.

In case of skin contact:

Take off immediately all contaminated clothing. After contact with skin, wash immediately with plenty of water and soap. Do not use solvents or thinners.

In case of eye contact:

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. In case of eye irritation consult an ophthalmologist.

After ingestion:
Rinse mouth immediately and drink plenty of water. Get medical advice/ attention.

4.2. **Most important symptoms and effects, both acute and delayed:**

4.3. **Indication of any immediate medical attention and special treatment needed**

5. Firefighting measures

5.1. **Extinguishing media**

Suitable extinguishing media:
Water, Powder, Foam, Carbon dioxide (CO2).

Extinguishing media which must not be used for safety reasons:
none.

5.2. **Special exposure hazards arising from the substance or preparation itself, its combustion products or from resulting gases:**
Vapours are heavier than air, spread along floors and form explosive mixtures with air. Gases/vapours, harmful. Gases: carbon monoxide, Carbon dioxide.

5.3. **Special protective equipment for firefighters:**
In case of fire: Wear self-contained breathing apparatus.

Additional information:
Do not allow water used to extinguish fire to enter drains, ground or waterways. Treat runoff as hazardous.

6. Accidental release measures

6.1. **Personal precautions, protective equipment and emergency procedures**
Wear eye/face protection. Do not breathe gas/vapour/aerosol. Provide fresh air.

6.2. **Environmental measures**
Do not allow to enter into surface water or drains. If the product contaminates lakes, rivers or sewages, inform competent authorities in accordance with local regulations.

6.3. **Methods and material for containment and cleaning up**
Isolate leaked material using non-flammable absorption agent (e.g. sand, earth, vermiculit, diatomaceous earth) and collect it for disposal in appropriate containers in accordance with the local regulations (see chapter 13). Clean using cleansing agents. Do not use solvents.

6.4. **Reference to other sections**
Observe protective provisions (see chapter 7 and 8).

7. Handling and storage

7.1. **Precautions for safe handling**

Advices on safe handling

Avoid contact with skin, eyes and clothes. May form explosive peroxides.

Precautions against fire and explosion:
Take precautionary measures against static discharges.

7.2. **Conditions for safe storage, including any incompatibilities**

Requirements for storerooms and containers:
Storage in accordance with the Ordinance on Industrial Safety and Health (BetrSiVO). Store in a dry place. Keep container tightly closed. Do not empty containers with pressure - no pressure vessel! Smoking is forbidden. Access only for authorised persons. Store carefully closed containers upright to prevent any leaks.

Hints on joint storage
Keep away from strongly acidic and alkaline materials as well as oxidizers.

Further information on storage conditions
Keep away from heat. Store in a cool dry place.

7.3. **Specific end use(s)**
Observe technical data sheet.Observe instructions for use.

8. Exposure controls / Personal protection

8.1. **Control parameters**

EC No: CAS No.:	Description:	type:	Limit value STEL (EC) TWA (EC)	unit
-				

Additional information
none.

8.2. **Exposure controls**
Provide good ventilation.

Occupational exposure controls:

Respiratory protection:
Wear breathing apparatus if exposed to vapours/dusts/aerosols.

Hand protection:
Wear suitable gloves.

Eye protection:
Wear eye/face protection.

Body protection:
Wear suitable protective clothing.

Protective measures:
After contact clean skin thoroughly with water and soap oder use appropriate cleanser.

Environmental exposure controls
Do not allow to enter into surface water or drains. refer to chapter 7. No further action is necessary.

9. Physical and chemical properties

9.1. **information on basic physical and chemical properties**

Appearance:	liquid
Physical state:	liquid
Colour	colourless
Odour:	characteristic

Safety relevant basis data		unit	Method	Remark:
Flash point (°C):	120	°C		
Ignition temperature (AIT):	310	°C		
Lower explosion limit:	1,4	Vol-%		
Upper explosion limit:	9,0	Vol-%		
Vapour pressure (T = 20°C)	1,4	mbar		
density (T = 20°C)	1,10	g/cm³		
Water solubility (g/l):	insoluble	g/L		
pH(T = 20°C; C = 100,0 %)	~ 7			
boiling temperature / boiling range:	140	°C		
melting point / melting range:	~ 13	°C		

9.2. **Other information:**
Partition coefficient n-octanol /water (log P O/W):
1,16

10. Stability and reactivity

10.1. **Reactivity**

10.2. **Chemical stability**
Stable when applying the recommended regulations for storage and handling. Further information on correct storage: refer to chapter 7.

10.3. **Possibility of hazardous reactions**
Keep away from strong acids, strong bases and strong oxidizing agents to avoid exothermic reactions.

10.4. **Conditions to avoid**

10.5. **Incompatible materials**

10.6. **Hazardous decomposition products**
none. Hazardous decomposition byproducts may form with exposure to high temperatures, e.g.: carbon dioxide, carbon monoxide, smoke.

11. Toxicological information

Further information: see technical data sheet.

11.1. Information on toxicological effects

Acute toxicity

2-phenoxyethanol
oral, LD50, Rat: > 2000 mg/kg

2-phenoxyethanol
dermal, LD50, Rabbit: > 2000 mg/kg

Octane-1,2-diol
oral, LD50, Rat: 2200 mg/kg

Octane-1,2-diol
Subacute oral toxicity, NOEL:, Rat: 50 mg/kg bw/day (28 d)

Octane-1,2-diol
Subacute oral toxicity, NOAEL:, Rat: 300 mg/kg bw/day (28 d)

Irritant and corrosive effects

2-phenoxyethanol
Eyes, Rabbit: Evaluation: irritant.
Method: OECD 405

2-phenoxyethanol
Skin, Rabbit: Evaluation: Not an irritant.
Method: OECD 404

Octane-1,2-diol
Eyes: Evaluation: irritant.
Method: Draize-Test

Octane-1,2-diol
Skin: Evaluation: Not an irritant.
Method: Patch test

Sensitisation

Octane-1,2-diol
Skin: ; Evaluation: not sensitising.
Method: OECD 429

Octane-1,2-diol
Skin: ; Evaluation: not sensitising.
Method: OECD 406.

Specific target organ toxicity

Toxicological data are not available.

Aspiration hazard:

Toxicological data are not available.

CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

2-phenoxyethanol
Mutagenicity; Evaluation: No experimental indications of mutagenicity in-vitro exist.
IUCLID-File

Octane-1,2-diol
Mutagenicity; Evaluation: No experimental indications of mutagenicity in-vitro exist.
Method: Ames test

Octane-1,2-diol
Mutagenicity; Evaluation: No experimental indications of mutagenicity in-vitro exist.
Method: OECD 476.

Practical experience

General remarks

Overall Assessment on CMR properties:

The components in this formulation do not meet the criteria for classification as CMR category 1 or 2.

12. Ecological information

Biodegradation
Readily biodegradable (according to OECD criteria) The statement is derived from the properties of the single components.

12.1. **Toxicity**
2-phenoxyethanol
Fish toxicity, LC50, Leuciscus idus (golden orfe): 220 - 460 mg/l (96 h)
IUCLID-File

2-phenoxyethanol
Daphnia toxicity, EC50, Daphnia magna: > 500 mg/l (48 h)
IUCLID-File

2-phenoxyethanol
Algae toxicity, ErC50, Scenedesmus subspicatus: > 500 mg/l (72 h)
IUCLID-File

Octane-1,2-diol
Daphnia toxicity, EC50, Daphnia magna: 176 mg/l (48 h)

Octane-1,2-diol
Acute Daphnia toxicity, EC10:, Daphnia magna: 146 mg/l (48 h)

Octane-1,2-diol
Algae toxicity, EC10:, Pseudokirchneriella subcapitata: 22 mg/l (72 h)

Octane-1,2-diol
Algae toxicity, EC50:, Pseudokirchneriella subcapitata: 46 mg/l (72 h)

Long Term Ecotoxicity

Toxicological data are not available.

12.2. **Persistence and degradability**
2-phenoxyethanol
Biodegradation: 90 - 100 % (15 d); Evaluation: Readily biodegradable (according to OECD criteria)
Method: OECD 301A / ISO 7827 / EEC 92/69 annex V, C.4-A

Octane-1,2-diol
Biodegradation: 75 % (28 d); Evaluation: Readily biodegradable (according to OECD criteria)
Method: OECD 301D / EEC 92/69 annex V, C.4-E

Octane-1,2-diol
Biodegradation: > 70 % (60 d); Evaluation: Readily biodegradable (according to OECD criteria)
Method: OECD 311

12.3. **Bioaccumulative potential**
Octane-1,2-diol
Distribution coefficient (n-octanol / water) (log P O/W): 1

Bioconcentration factor (BCF):

Toxicological data are not available.

12.4. **Mobility in soil**
Toxicological data are not available.

12.5. **Results of PBT and vPvB assessment**

The components in this formulation do not meet the criteria for classification as PBT or vPvB.

12.6. **Other adverse effects**
According to the present state of knowledge negative ecological effects are not expected.

13. Disposal considerations

13.1. **Waste treatment methods**

Appropriate disposal / Product
Recommendation:
Do not allow to enter into surface water or drains. This material and its container must be disposed of in a safe way. Waste disposal according to EC directives 75/442/EEC and 91/689/EEC in the corresponding versions, covering waste and dangerous waste.

Control report for waste code/ waste marking according to EAKV:
070699 wastes not otherwise specified

Contaminated packaging:
Recommendation:
Cleaned containers may be recycled. Vessels not properly emptied are special waste.

14. Transport information

This mixture is not classified as dangerous according to international transport regulations (ADR/RID, IMDG, ICAO/IATA).
No dangerous good in sense of these transport regulations.

15. Regulatory information

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

EU legislation

National regulations

Informations on working limitations:
Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers.
Observe restrictions to employment for juvenils according to the 'juvenile work protection guideline' (94/33/EC).

Substance/product listed in the following inventories:
AICS no information

DSL no information

IECSC no information

KECI no information

MITI no information

PICCS no information

TSCA not listed

15.2. **Chemical Safety Assessment**
Chemical safety assessments for substances in this preparation were not carried out.

16. Other information

Relevant R-and H-phrases (Number and full text):

Acute Tox. 4 / H302	Acute toxicity (oral):	Harmful if swallowed.
Eye Irrit. 2 / H319	Serious eye damage/eye irritation:	Causes serious eye irritation.
Xn; R22	Harmful	Harmful if swallowed.
Xi; R36	Irritant	Irritating to eyes.

Further remarks:
The information supplied on this safety data sheet complies with our current level of knowledge as well as with national and EU regulations. Without written approval, the product must not be used for purposes different from those mentioned in chapter 1. It is always the user's duty to take any necessary measures for meeting the requirements laid down by local rules and regulations. The details in this safety data sheet describe the safety requirements of our product and are not to be regarded as guaranteed attributes of the product.

Annex:

At present, data / information on exposure scenarios are not available, so that an evaluation of the preperation cannot yet be made.