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Preparation date: 03/2018

Edition: 1
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Commercial Name: **Piercing care products**
Forasept, Biotycare, Pierce Care
Art. No. KD1000, KD2000, KD6000

1. Substance / Preparation and Company Name

- 1.1 Commercial Name: Forasept, Biotycare, Pierce Care
1.2 Identified Uses: Cosmetic application
1.2.1 Uses advised against:
1.2 Company: Dr. Tillwich GmbH Phone: +49-7451-5386-0
Werner Stehr
Murber Steige 26 Fax: +49-7451-5386-70
D-72160 Horb E-Mail: info@tillwich-stehr.com
Germany
1.3 Emergency Call: +49-7451-5386-0 8.00 am until 5.00 pm UTC + 1h
+49-171-5477230 5.00 pm until 8.00 am UTC + 1h

2. Hazards Identification

- 2.1 Classification of the substance or mixture:

Hazard Statements:

Flam. Liq. 2 H225 Highly flammable liquid and vapor.
Eye Irrit. 2 H319 Causes serious eye irritation.

Precautionary Statements:

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources.
No smoking.
P233 Keep container tightly closed.
P241 Use explosion-proof electrical/ventilating/lighting/equipment.
P243 Take precautionary measures against static discharge.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P337 + P313 If eye irritation persists: Get medical advice/attention.
P403 + P235 Store in a well-ventilated place. Keep cool.

- 2.2 Label Elements:

Hazard Pictograms



GHS02 GHS07

Signal Word: **Danger**

The products are hazardous mixtures.

The classification and identification referred to guideline (EG) Nr.1272/2008 with amendments and additions.

The products are classified and labeled according to GHS.

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2.3 Other Hazards:

All chemicals are potentially dangerous. They should therefore only be handled by specially trained personnel with the necessary care.

3. Composition / Components3.1 Substance: Mixture: **3.2 Chemical Characterization:**

Components / REACH -Identifiers	Percentage	CAS-Nr.	Einecs	Hazard Statements	Precautionary Statements	Hazard Pictograms
Azeotropic boiling ethanol water mixture 01-2119457610-43 Forasept Biotycare Pierce Care	>90 % >80 % >70 %	64-17-5	200-578-6	H225 H319	P210 P233 P241 P243 P280 P337 P313 P403 P235	GHS02 GHS07
Diethyl phthalate as denaturant	0,5 %	84-66-2	201-550-6	none	none	None
Extracts of natural active ingredients in alcoholic solution				none	none	none

Classification according to EU guidelines and national guidelines, latest version.

4. Precautions for First Aid

- 4.1 Contact with Skin: Remove contaminated clothing. After contact with skin, wash immediately with plenty of water and soap. After work wash hands with water and soap.
- 4.2 Contact with Eyes: Hold eye open and rinse slowly and gently with water for 15 – 20 minutes. Immediately call a physician.
- 4.3 Inhalation: After inhalation of the product in case of accidental - fresh air. Consult a doctor.
- 4.4 Ingestion: If swallowed, do not induce vomiting: seek medical advice.
- 4.5 Other Information:

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5. Fire Fighting Procedures

- 5.1 Suitable Extinguisher: CO₂ – foam or powder, water spray, alcohol resistant foam.
Cool containers with water in case of fire.
- 5.2 Unsuitable Extinguisher: Jet of water.
- 5.3 Special Hazards / Endangering:
Do not empty contaminated water into drains, ground and lakes or rivers.
- 5.4 Special Protection Equipment:
Wear self-contained breathing apparatus and tightly closing protective suit.

6. Precautions for Uncontrolled Release

- 6.1 Personal Precautions:
Avoid contact with eyes, skin and clothing. Do not breathe vapors. Wear protective equipment.
Keep unprotected persons away.
- 6.2 Environmental Protection:
Do not empty the product into drains, ground and waters. Risk of explosion.
- 6.3 Spill Response:
Cover with inorganic absorbent material. The material must be disposed of as hazardous waste.
Clean contaminated objects and the floor thoroughly, observing environmental regulations.
- 6.4 Other Information:
-

7. Handling and Storage

- 7.1 Handling:
Take precautionary measures against static discharge. Wear antistatic shoes. Use only explosion-proof pumps, fittings and valves. Keep away from sources of ignition. When using this product do not eat, drink or smoke. Keep away from food and drink. Occurring vapors remedied by adequate ventilation or extraction. Keep container tightly closed when not in use.
- 7.2 Storage:
Keep only in the original container, protected from light and heat, in a well-ventilated and fire resistant area. Storing large quantities over type-approved drip pans with sufficient volume.
Avoid contact with oxidizing agent. Keep away from inflammable materials and fluids.
Be careful when emptied container, if ignited, explosion possible.
Decant only in designated containers. Breakable vessels only use up to 2 liters. Maximum filling 95 %.
Storage class (VCI concept): 3 A (Flammable liquids)
- 7.3 Determined Use:
No special references.

8. Precautionary Information

- 8.1 Control parameters

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Occupational exposure limits.

AWG Threshold limit value (Germany) IOELV (European Union)	500 ml/m ³ (ppm), 960 mg/m ³
BWG Biological threshold limit value (Germany)	No data available.

DNEL Derived-No-Effect-Level / Derived-Minimal- Effect-Level (DMEL)

Longterm – Systemic effects		
Dermal	DNEL	343 mg/kg (worker)
Inhalation	DNEL	950 mg/m ³ (worker)
Longterm – Local effects		
Inhalation	DNEL	No data available
Shortterm – Systemic effects		
Inhalation	DNEL	No data available
Shortterm – Local effects		
Inhalation	DNEL	1900 mg/m ³ (worker)

PNEC Predicted No Effect Concentration

Soil	0,63 mg/kg dry weight
Sewage treatment plant	580 mg/l
Marine water	0,79 mg/l
Fresh water sediment	3,6 mg/kg dry weight
Fresh water	0,96 mg/l
Sporadic release	2,75 mg/l

- 8.2 Technical Precautions for the avoidance of the exposition on the job:
 In operation use closed, grounded appliances. Remove vapors at the exit point, lead over the separator. Note limits.

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8.3 Delimitation and monitoring of the exposition:

General protective and hygiene measures:
When using do not eat, drink or smoke.
Keep away from food, drink and animal feedingstuffs.
Take off all contaminated clothing immediately.
Wash hands before breaks and at end of work.
Avoid contact with skin and eyes.
Regular cleaning of equipment and the work area.

Breath Protection
Recommended Filter Type: Filter A (Color: brown).
Observe the "regulations on the use of respiratory protection equipment" (BGR190).

Skin Protection
After work wash hands with water and soap.
Preventive skin protection required - Use protective hand lotion or wear suitable gloves.
Avoid longer and intensive skin contact.

Suitable gloves:

Material:	Nitrile rubber	Butyl rubber	Fluorinated rubber
Category:	III	III	III
Thickness:	0,4 mm	0,4 mm	0,4 mm
Permeation time:	Level 4 (> 120 min.)	Level 6 (>480 min.)	Level 6 (>480 min.)

The data were determined on laboratory conditions. The conditions in practical application can deviate from these, the data can be only a guideline assistance with the selection of the suitable gloves.

Contaminated gloves should be changed as fast as possible.

Eye Protection
Wear eye / face protection.

Body Protection
Wear suitable protective clothing (solvent resistant).

8.4 Other Information:
Protective measures for chemicals must be noticed.

9. Physical and Chemical Data

9.1	Condition: liquid	Colour: yellowish	Odour: alcoholic oder
9.2	Change of Condition:		
	9.2.1 Boiling Point: *	78° C (172,4° F)	
	9.2.2 Pourpoint: *	-114° C (-173,2° F)	ISO 3016
9.3	Flash Point: *	12° C (53,6° F)	ISO 2592
	percent by weight: 100		
9.4	Ignition Point: *	425° C (797° F)	DIN 51794
9.5	Explosion Limits: *		
	lower: 3,4 Vol % = 67 g/m ³	upper: 15 Vol % = 290 g/m ³	
9.6	Vapour Pressure at 20°C (68° F): *	59 mbar	

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- | | | | |
|------|---|--|-----------|
| 9.7 | Density at 20°C (68° F): | about 0,8 g/cm ³ | DIN 51757 |
| 9.8 | Solubility in H ₂ O at 20°C (68° F): | fully miscible | |
| 9.9 | pH value: | neutral | |
| 9.10 | Viscosity at 20°C (68°F) | - | DIN 51562 |
| 9.11 | Other Information: | The information marked with " * " in this section refers to non-denatured anhydrous ethanol. | |

10. Stability and Reactivity Data

- 10.1 Stability:
No decomposition if used according to specifications.
- 10.2 Conditions to be avoided:
Keep away from sources of ignition, heat and direct sunlight.
- 10.3 Incompatible materials:
Avoid contact with oxidizing agent and inflammable materials.
- 10.4 Hazardous Decomposition Products:
Carbon dioxide and carbon monoxide.
- 10.5 Possibility of hazardous reactions:
If stored and handling to the information, no hazardous reactions known.
- 10.6 Other Information:
The products are not explosive. Formation of explosive vapor / air mixtures are possibility.
Vapors heavier than air.

11. Toxicological Data

The toxicological properties refer to anhydrous non-denatured ethanol.

Acute Oral Toxicity LD₅₀: > 10470 mg/kg, rat. OECD-method 401.

Acute Dermal Toxicity LD₅₀: > 2000 mg/kg, rabbit. OECD-method 402.

Acute Inhalational Toxicity LD₅₀: 117 - 125 mg/l, 4 h, rat. OECD-method 403.

Repeat-dose toxicity (Oral-Feed-Rat):

No data available.

Effects after skin contact:

No irritant effect. Rabbit. OECD-method 404.

Prolonged or repeated contact leads to degreasing and inflammation of the skin.

Effects after eye contact:

Slight irritant effect. Rabbit. OECD-method 405.

Effects after resorption / inhalation / swallowing:

Vapours and liquids irritate the mucous membrane. High vapour concentrations have an anaesthetic effect.

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Sensitisation:

Does not cause skin sensitization. Mouse. OECD-method 429.

Mutagenicity:

No germ cell mutagenicity.

Bacterial Reverse Mutation Test (Salmonella typhimurium). OECD-method 471.

Mammalian Bone Marrow Chromosome Aberration Test. OECD-method 475.

In Vitro Mammalian Cell Gene Mutation Test (Mouse). OECD-method 476.

In Vitro Mammalian Chromosome Aberration Test. OECD-method 473.

Carcinogenicity:

NOAEL: > 3000 mg/kg. Rat. OECD-method 451.

Reproductive toxicity:

NOAEL: 5200 mg/kg. Rat, bw/d

Aspiration hazard:

No evidence of such an effect.

Specific target organ toxicity – single exposure:

No data available.

Specific target organ toxicity – repeated exposure:

Acute Inhalation Toxicity: NOAL: > 20 mg/l. Rat, male. OECD-method 403.

Repeated Dose 90-Day Oral

Toxicity Study in Rodents: NOAEL: 1730 mg/kg/d. Rat, female. OECD-method 408.

12. Environmental Information

The environmental data refer to anhydrous non-denatured ethanol.

12.1 Ecological toxicity:

Acute Fish Toxicity:

LC₅₀: 13000 mg/l, 96 h (Oncorhynchus mykiss). OECD-method 203.

Acute Daphnia Toxicity:

EC₅₀: 12340 mg/l, 48 h, (Daphnia magna). OECD-method 202.

Acute Alga Toxicity:

EC₅₀: 12900 mg/l, 48 h, (Selenastrum capricornutum). OECD-method 201.

EC₅₀: 275 mg/l, 72 h, (Chlorella vulgaris). OECD-method 201.

Acute Bacteria Toxicity:

No data available.

12.2 Mobility:

Mobility in Ground and Water:

Henry-Constant K_{AW}: 0,000138.

Environmental Distribution Data:

No data available.

12.3 Persistence and Degradableness

Biodegradation: 97 %. OECD-method 301 B. Biodegradable.

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- 12.4 Biodegradability:
BCF: 3,2 mg/l. Log Pow: -0,32.
- 12.5 Result of the determination of the PBT characteristics:
PBT: Not applicable
vPvB: Not applicable
- 12.6 Additional ecological information:
With proper handling and use, no environmental problems are to be expected. Do not discharge into ground or waters.



13. Waste Disposal Information

The allocation of the waste keys is to be accomplished branch and process specifically by the waste producer separately. The indicated waste keys are only recommendations for the disposal of the unmachined product.

- 13.1 Product:
EWC - Code: (European waste category list): 07 06 04*.
other organic solvents, washing liquids and mother liquors.
- 13.2 Package:
EWC - Code: (European waste category list): 15 01 10*
contaminated package.
- 13.3 Other Information:
-

14. Transport Information

- 14.1 General Information:
U.N. No.: 1170
Packing group: II
- 14.2 UN proper shipping name:
ADR UN 1170 Ethanol
IMDG Ethanol
IATA Etahnol
- 14.3 Transport hazard class

ADR		Class	Label
		3 Flammable liquids	3

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IMDG			
		Class 3 Flammable liquids	Label 3

IATA		
	Class 3 Flammable liquids	Label 3

14.4 Environmental hazards :

Combustible material.
Special Labelling : None

14.5 Special precautions for user:

Attention: Flammable liquids.
Kemler-number: 33
EMS-number: F-E, S-D

14.6 Other Information:

ADR
Limited Stock (LQ): 1 L
Transport category: 3
Tunnel registration: D/E
UN „Model Regulation“: UN1170, Ethanol, flammable, 3, II

15. Regulations

15.1 Labelling according to EC Directives:

Classification and labeling according to EC No. 1272/2008.
The products are classified and labeling to GHS.

15.2 National German Regulations:

Information about limitation of use:
Employment restrictions concerning juveniles: § 22 JArbSchG.
Observe employment restrictions for pregnant and nursing mothers (MuSchArbV).
No restriction, observe workplace limit value.

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Classification according to (BetrSichV):
Highly flammable.

Waterhazard class:

WGK 1 Self-classification. Slightly hazardous to water. Valuation according to VwVws, annex 4.

Storage class according to TRGS 510:

3, Flammable liquid

Other Regulations:

Note Directive 98/24 / EC on the protection of the health and safety of workers from the risks related to chemical agents at work.

Special Information:

-

15.3 Chemical Safety Assessment:

A Chemical Safety Assessment has not been carried out.

15.4 Training advice:

Provide adequate information, instruction and training for operators.

16. Additional Information

The information of this Data Sheet represents our best knowledge. This information is for security reasons only and does not contain any characteristic properties guaranteed for a special application. Any use of the product which is not in conformance with this Data Sheet or which involves using the product in combination with any other products or processes is the responsibility of the user.

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Legend:

ADR	European Agreement concerning the International Carriage of Dangerous Goods by road.
AGW	Threshold limit value (Germany)
AOX	Adsorbable organic halogen compounds
AVV	European Waste Catalogue
BCF	Bioconcentration factor
BGW	Biological threshold limit value (TRGS 903, Germany)
BOD	Biochemical oxygen demand (=biochemischer Sauerstoffbedarf)
CAS	Chemical Abstracts Service
CLP	Classification, Labeling and Packaging (Verordnung EG-Nr. 1272/2008)
CMR	Carcinogen, Mutagen, Reprotoxisch (krebserzeugend, erbgutverändernd, fortpflanzungsgefährdend)
COL	Chemical oxygen demand (=chemischer Sauerstoffbedarf)
DMEL	Derived Minimum Effect Level (=abgeleiteter Minimaler-Effekt-Grenzwert)
DNEL	Derived No Effect Level (=abgeleiteter Nicht-Effekt-Grenzwert)
EC ₅₀	Median effective concentration
ED ₅₀	Median effective dose
ECHA	European Chemicals Agency
EINECS	European Inventory of Existing Commercial Chemical Substances
GHS	Globally Harmonized System of Classification and Labeling of Chemicals
GWP	Global Warming Potential (=Treibhauspotential)
K _{AW}	Henry's constant. Distribution Air-Water.
IATA	International Air Transport Association
IMDG-Code	International Maritime Code for Dangerous Goods
LC ₅₀	Median lethal concentration
LD ₅₀	Median lethal dose
LogPow	Octane-water partition coefficient
NOAEL	No Observed Adverse Effect Level (=Dosis ohne beobachtete schädigende Wirkung)
NOEC	Observed Effect Concentration (= Tierexperimentell festgelegte höchste Konzentration, bei der keine Wirkung mehr nachweisbar ist)
NOEL	No Observed Effect Level (=Tierexperimentell festgelegte höchste Dosis, bei der keine Wirkung mehr nachweisbar ist.
OCP	Ozone Depletion Potential (=Ozonabbaupotential)
PBT	Persistent, Bioaccumulative and Toxic
PNEC	Predicted No Effect Concentration (= abgeschätzte Nicht-Effekt-Konzentration)
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation EU-No. 1907/2006.
SVHS	Substances of Very High Concern (besonders besorgniserregende Substanzen)
TRGS	Technical Rules for Hazardous Substances
VCI	German Chemical Industry Association e.V.
VOC	Volatile organic compounds (= flüchtige organische Verbindungen)
vPvB	very Persistent and very Bioaccumulative
VwVwS	German regulation water-polluting substances
WGK	Water contaminating class (Germany)