

SAFETY DATA SHEET

Version: 03.2019

In accordance with 1907/2006/EG, REACH (DE)

1. IDENTIFICATION OF PRODUCT AND COMPANY

Product name:	ANOVET[®] ANTI-MICROBIAL FLUSH
Utilization of the product:	Promotes healthier environments in animal care, helping in infectious diseases control. Safe for all animals.
Brand:	ANOVET[®]
Manufacturer / Supplier:	Ecabiotec Middle East Manufacturing LLC 98901 Dubai, United Arab Emirates under license of Ecabiotec AG, Germany Tel. +971 4 429 11 34 Fax +971 4 429 11 34 info@ecabiotec-me.com
Emergency information:	+971 56 40 07 724

2. SPECIFICATIONS /SCOPE

Trade Name:	ANOVET[®] ANTI-MICROBIAL FLUSH
Product Type:	PT3
BAUA-NO.	N-48579
Scope (see product datasheet):	For flushing applications in veterinary fields.

3. COMPOSITION / SPECIFICATIONS OF INGREDIENTS

CHEMICAL CHARACTERIZATION

Product Type:	Mixture
Comments to components:	Neutral (pH 6-9) Electrochemically activated saline solution. No organic compounds, especially no VOC and agents of the SVHC-list of the REACH regulation

Component	Concentration	Cas-No.	EINECS-No.
Sodium hypochlorite NaOCl	0.02 - 0.08% 200 - 800 mg/L	7681-52-9	231-668-3
Sodium chloride NaCl	≤0.1 - 0.8% ≤1.0 - 8.0 g/L	7647-14-5	231-598-3
Water H ₂ O	>99%	7732-18-5	231-791-2
Active substance parameters			
Hypochlorous acid HOCl	200 – 800 mg/L	7790-92-3	232-232-5
ORP (Ag/AgCl-electrodes)	+750 - +950 mV		

4. POSSIBLE HAZARDS

Classification according to guideline (EG) 1272/2008 (CLP):

Not specified

Classification according to regulation 67/548/EWG or guideline 1999/45/EG:

No hazardous material

Labeling elements:

The product does not require labeling according to the EG guidelines

Hazard symbols / R-phrase:

None

Physical-chem. hazards:

None known

Environmental hazards:

Does not contain polybutylene terephthalate (PBT) or other persistent bioaccumulatory substances (vPvB)

Other hazards:

None known

5. FIRST AID MEASURES

General references:	No special measures necessary; consult doctor in case of complaints
After eye contact:	Rinse out with water
After skin contact:	Rinse out with water
After consumption:	Rinse out with water, drink water
After inhalation:	Fresh air supply in case of complaints
Acute and delayed occurring symptoms and effects:	None known
Instructions for the doctor:	Treat symptomatically, submit msds

6. MEASURES FOR FIRE FIGHTING

Suitable fire extinguishing agents:	According to surroundings, product non inflammable
Special hazards arising from the substance / mixture:	None; small amounts of chlorine gas can occur
Special dangers in fire fighting:	No special measures required

7. MEASURES IN CASE OF UNINTENTIONAL RELEASE

Protective equipment and emergency procedures:	No special measures required
Environmental measures:	Rinsing with plenty of water if released in the environment
Method for containing and cleaning up:	Absorb with liquid binding material and dispose properly

8. HANDLING AND STORAGE

Precautions for safe handling:	For appropriate use no particular measures necessary; wear protective goggles when decanting or filling up the concentrate
Instruction for safe storage:	Keep only in the original container, keep the container tightly closed Protect from direct sun and frost Recommended storage temperature 5 to 25°C no contact with acid Storage category 12 (non ammable liquids)
Information about protection against fires and explosions:	No special instructions
Classification "Operational Safety Ordinance"	-

9. PERMISSIBLE EXPOSURE LIMIT / PERSONAL PROTECTIVE MEASURES

Components with critical values that require monitoring at the workplace:	The product does not contain any relevant quantities of materials with critical values
Limitation and monitoring of exposure:	
Eye protection:	Wear protective goggles
Hand protection:	Not relevant
Body protection:	Not relevant
Other protective measures:	The usual caution measures while dealing with chemicals have to be observed
Respiratory protection:	Not required
Thermal hazards:	Not applicable
Limitation and monitoring	See section 7. and 8.
Environmental exposure:	

10. PHYSICAL AND CHEMICAL PROPERTIES

General Information

Form	Liquid
Color	Colorless
Odor	Weak characteristic pool Odor
Odor threshold	Not applicable
pH value at 25°C	6.0 – 9.0
pH-value (1%)	Not relevant
Boiling point °C	98 - 102
Flashpoint °C	Not applicable
In flammability °C	Not applicable
Fire-provoking properties	None
Lower explosion limit	Not applicable
Upper explosion limit	Not applicable
Density at 25°C in g/cm ³	1.001 - 1.004
Steam and gas pressure (kPa)	Not specified
Bulk density (kg/m ³)	Not applicable
Water solubility	Completely soluble
Viscosity	Not relevant
rel. vapour density	Not relevant
Evaporation rate	Not relevant
Melting point °C	0 to -3
Self-flammability	Not self-in flammable
Decomposition temperature	Not known
Others	
Solvent content	None

11. STABILITY AND REACTIVITY

Reactivity	None if used properly
Chemical stability	Under normal environmental conditions 24 months
Hazardous reaction	Reaction with acids; acts strongly oxidizing
Conditions to avoid	High temperature (>55°C)
Materials to avoid	Metals without protection
Hazardous decomposition products	Sodium chlorate; contact with acid: chlorine gas

12. DATA ON TOXICOLOGY

Acute toxicity	Not known
General notes	No classification has been done by calculation in accordance with the "General Classification Guideline of mixtures of the EG" in the last valid version

13. DATA ON TOXICOLOGY

Toxicity	No data on toxicity
Persistency and degradability	Not determined
Mobility accumulation potential	No information
PBT- and vPvB-evaluation	No classification as PBT or vPvB
Other ecological notes	Do not discharge product unmonitored into the environment. Eco-toxicological data have not been determined; negative ecotoxicological effects are not to be expected

14. DISPOSAL CONSIDERATIONS

Processes of waste management	Product residues are to be disposed under the waste disposal code 2008/98/EG as well as the national and regional rules. The waste code (EU) is established in consultation with the regional waste disposer.
Package	Disposal of plastic packages in consultation with your local disposer.

15. TRANSPORT INFORMATION

No dangerous goods in terms of dangerous goods regulations for transport by ground, sea and air (ARD/ RID und GGVSE, IMDG/GGVSee, ICAO-TI, IATA-DGR)

16. REGULATORY INFORMATION

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

EU-regulation	1967/548 (1999/45); 1991/689 (2001/118); 1999/13; 2004/42; 648/2004; 1907/2006 (REACH); 1272/2008; 75/324/EWG (2008/47/EG); 453/2010/EG
Transport regulation	ARD (2013); IMDG-Code (2013, 36. Amdt.); IATADGR (2013)
National regulation (DE)	GefSto V 2011; WRMG; WHG; TRG 300; TRGS 200, 220, 615, 900 und 905
Water-endangering class	nwg (non waterendangering) VwVwS 27.7.2005 (version: 2013)
Ordinance regulating the handling of incidents	No
TA-air	Not applicable
GISBAU, product code	Not applicable
Storage class (TRGS 510)	LGK 12: not in ammable liquids
Employment restrictions	No
VOC (1999/13/EG)	0%
Other regulations	Not applicable
Chemical safety assessment	Was not performed

17. OTHER INFORMATION

This version of the msds replaces all previous versions.

All specifications mentioned above are based on the present state of our knowledge. They refer to safety-relevant aspects and do not represent any definition of a product property in the legal sense. Legal specifications are to be considered in own responsibility.

18. ABBREVIATIONS AND ACRONYMS

ARD	Accord européen relatif au transport international des marchandises Dangereuses par Route
RID	Règlement concernant le transport international ferroviaire de marchandises dangereux
GGVSE	Regulation of the internal and trans border transport of dangerous goods on the road and with railroad
IMDG	International Maritime Code for Dangerous Goods
ICAO-TI	International Civil Aviation Organization - Technical
IATA	International Air Transport Association
DGR	Dangerous Goods Regulations
GefStoffV	Ordinance on Hazardous Substances
WRMG	Washing and Cleaning Agent Law
WHG	Water Resources Act
TRG	Technical Rules for Technical Gas
TRGS	Technical Rules for Hazardous Agents
TA-Luft	Technical Guideline for Air Pollution Control
LGK	Storage category
GISBAU	Hazardous substances-Information system of the BG BAU
VwVwS	Administrative Regulation on Substances Hazardous to Waters
REACH	Registration, Evaluation, Authorisation of Chemicals
PBT	Polybutylenterephthalat(e)
VPvB	Very persistent and very bioaccumulated substances
VOC	Volatile organic compounds
EWG	European Economic Community
EU	European Union
EG	European Community
CLP	Regulation on Classification, Labeling and Packaging of Substances and Mixtures