SAFETY DATA SHEET

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product identifiers

Product name:	PANclear Octoxynol 10 % solution
Product number:	CT-01001
Brand:	PAN-Biotech
REACH Nr.	Das Produkt ist ein Gemisch.

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

Identified uses:	**Laboratory chemicals, for research and development use.**
Uses advised against:	Consumer uses (private households) Food, drug, pesticide or biocidal product use No commercial use in the EU that is not explicitly covered by a REACH authorization or an exemption (such as scientific research and development or in vitro diagnostics).

1.3. Details of the supplier of the safety data sheet

Company	PAN-Biotech GmbH Am Gewerbepark 6 94501 Aidenbach GERMANY
Telephone:	+49-(0)8543-6016-30
Fax:	+49-(0)8543-6016-49
E-mail:	info@pan-celltech.de

1.4. Emergency telephone number

Emergency phone:	+49-(0)8543-6016-30 or +49 151 51557123

2. HAZARDS INDENTIFICATION

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 (CLP).

Hazard class	Hazard Category	Hazards Statements
Skin irritation	Skin Irrit. 2	H315 Causes skin irritation.
Serious eye damage/exe	Eye Dam. 1	H318 Causes serious eye damage.

irritation

Hazardous to the aquatic environment	Aquatic Acute 1	H400 Very toxic to aquatic life
Hazardous to the aquatic environment	Aquatic Chronic 3	H412 Harmful to aquatic life with long lasting effects.

2.2. Label Elements

Labelling according to Regulation (EC) No. 1272/2008 (CLP).

Hazard pictograms:



GHS05



GHS09

Signal word: Danger

Hazard statements:	**H315**	Causes skin irritation.
	H318	Causes serious eye damage.
	H400	Very toxic to aquatic life.
	H412	Harmful to aquatic life with long lasting effects.
EUH statement:	EUH430	May cause endocrine disruption in the environment.
Precautionary statements:	P273	Avoid release to the environment.
	P280	Wear protective gloves/protective clothing/eye protection/ Face protection/hearing 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. to do.
	P310	Immediately call a POISON CENTER/doctor/…
	P391	Collect spillage.
	P501	Dispose of contents/container to…

2.3. Other hazards

The ingredient Triton X-100 has endocrine-disrupting properties (see section 12).
The mixture does not meet the PBT or vPvB criteria.

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1. Substances

Synonyms:
Not applicable, product is a mixture.

3.2. Mixtures

Chemical name	**CAS-No.**	**Classification**	**Concentration (% w/w)**
Ethoxy Ethanol	9036-19-5	H302 Acute Tox. 4,	≥ 10 - < 20

H318 Eye Dam. 1
H411 Aquatic Chronic 2

ATE values:
ATE (Oral) 500 mg/kg
ATE (Dermal) >3000 mg/kg



Ethoxy Ethanol (CAS No. 9036-19-5) is listed in Annex XIV of the REACH Regulation as a substance of very high concern due to its endocrine-disrupting properties and is subject to authorization under REACH.

4. FIRST AID MEASURES

4.1. Description of first aid measures

4.1.1. General notes

4.1.2. If inhaled

If breathed in, move person into fresh air. If breathing becomes difficult, call a physician. If not breathing, give artificial respiration.

4.1.3. In case of skin contact

In case of contact, immediately wash skin with soap and copious amounts of water.

4.1.4. In case of eye contact

In case of contact with eyes, flush with copious amounts of water for at least 15 minutes. Assure adequate flushing by separating the eyelids with fingers. Call a physician if symptoms persist.

4.1.5. If swallowed

If swallowed, wash out mouth with water provided person is conscious. Call a physician if symptoms persist.

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

No information available.

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

No information available.

5. FIREFIGHTING MEASURES

5.1. Extinguishing media

5.1.1. Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

5.1.2. Unsuitable extinguishing media

Full water jet

5.2. Special hazards arising from the substance or mixture

Carbon oxides

5.3. Advice for firefighters

Wear self-contained breathing apparatus and protective clothing for firefighting if necessary.

6. ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures
Avoid breathing vapors, mist or gas.

6.2. Environmental precautions
Do not let product enter drains

6.3. Methods and materials for containment and cleaning up
Keep in suitable, closed containers for disposal.

6.4. Reference to other sections
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

7. HANDLING AND STORAGE

7.1. Precautions for safe handling
Normal measures for preventive fire protection.
Information on protection measures are listed in section 2.2.

7.2. Conditions for safe storage, including any incompatibilities
Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.
Storage class (LGK) according to TRGS 510: LGK 12 -Non-combustible liquids.
Recommended storage temperature: 2-8 °C

7.3. Specific end use(s)
No further information available.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters
Components with workplace control parameters: not required.

8.2. Exposure controls
Appropriate engineering controls
General industrial hygiene practice.
Personal protective equipment
Eye/face protection
Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).
Skin protection
Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of

contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands. The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

Body Protection

Use impervious clothing, the type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection

Respiratory protection not required. For nuisance exposures use type OV/AG (US) or type ABEK (EU EN 14387) respirator cartridges. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure

Avoid release to the environment. Do not allow the product to enter drains or waterways.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Appearance Form:	liquid
Odour	no data available
Odour Threshold	no data available
pH	no data available
Melting point/freezing point	no data available
Initial boiling point and boiling range	no data available
Flash point	no data available
Evaporation rate	no data available
Flammability	no data available
Upper/lower flammability or explosive limits	no data available
Vapour pressure	no data available
Vapour density	no data available
Relative density	no data available
Water solubility	no data available
Partition coefficient: n-octanol/water	no data available
Auto-ignition temperature	no data available
Decomposition temperature	no data available
Viscosity	no data available
Explosive properties	no data available
Oxidizing properties	no data available

9.2. Other information

No data available.

10. STABILITY AND REACTIVITY

10.1. Reactivity

No data available

10.2. Chemical stability
Stable under recommended storage conditions

10.3. Possibility of hazardous reactions
No data available

10.4. Conditions to avoid
No data available

10.5. Incompatible materials
Strong oxidizing agents

10.6. Hazardous decomposition products
Other decomposition products - no data available

11. TOXICOLOGICAL INFORMATION

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity	no data available
Skin corrosion/irritation	May cause skin irritation.
Serious eye damage/eye irritation	May cause eye irritation.
Inhalation:	Material may be irritating to mucous membranes and upper respiratory tract. May be harmful if inhaled.
Ingestion:	May be harmful if swallowed.
Respiratory or skin sensitization	no data available
Germ cell mutagenicity	no data available

Carcinogenicity
IARC:
No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

Reproductive toxicity	no data available
Specific target organ toxicity - single exposure	no data available
Specific target organ toxicity - repeated exposure	no data available
Aspiration hazard	no data available

11.2. Information on other hazards
RTECS: Not available
To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

12. ECOLOGICAL INFORMATION

12.1. Toxicity

Chemical name	CAS-No.	LC/EC
Ethoxy Ethanol	9036-19-5	LC_{50}: 0,26 mg/L 4 d (Fish, *Leuciscus idus*) OECD Prüfrichtlinie 203 EC_{50}: 0,011 mg/L 2d (*Daphnia magna*)

EC_{50}: 1,9 mg/L 4 d (Alga)
static test

NOEC: 0,012 mg/L (Alga/Water plant, *Danio rerio*),
OECD-Prüfrichtlinie 210

Harmful to aquatic life with long lasting effects.

12.2. Persistence and degradability
Not readily biodegradable.

12.3. Bioaccumulative potential
Has a potential to bioaccumulate in aquatic organisms. The substance degrades to 4-tert-octylphenol, which shows bioaccumulative properties in the environment.

12.4. Mobility in soil
No data available

12.5. Results of PBT and vPvB assessment
PBT/vPvB assessment not available as chemical safety assessment not required/not conducted.

12.6. Endocrine disrupting properties
Contains a substance (Triton X-100) included in the REACH Authorization List (Annex XIV) because of its endocrine disrupting properties with adverse effects on the environment."

12.7. Other adverse effects
An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. Toxic to aquatic life with long lasting effects."

13. DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods
Product/unused product
Recommendation:
Do not dispose of with domestic waste.
Do not allow to enter into drains or water courses.
Dispose of as hazardous waste.
Dispose of at an approved waste disposal site.
Offer surplus and non-recyclable solutions to a licensed disposal company.
Waste code product:
16 05 06* Laboratory chemicals, consisting of or containing hazardous substances, including mixtures of laboratory chemicals.
* Waste subject to monitoring

Directive 2008/98/EC (Abfallrahmenrichtlinie)
HP 4 Irritant -skin irritation and eye damage
HP 14 Ecotoxic

Contaminated packaging
Recommendation:
Uncleaned and contaminated packaging must be treated and disposed of as hazardous waste in

the same manner as the unused product. Do not recycle or reuse fully emptied containers that have not been cleaned. Uncleaned packaging must be disposed of in the same manner as the substance itself.

14. TRANSPORT INFORMATION

14.1. UN number or ID number

ADR/RID: 3082 IMDG: 3082 IATA: 3082

14.2. UN Proper shipping name

ADR/RID: Environmentally hazardous substance, liquid, n.o.s.

IMDG: Environmentally hazardous substance, liquid, n.o.s.

IATA: Environmentally hazardous substance, liquid, n.o.s.

14.3. Transport hazard class(es)

ADR/RID: 9 (Miscellaneous dangerous substances and articles



IMDG: 9 (Miscellaneous dangerous substances and articles



IATA: 9 (Miscellaneous dangerous substances and articles



14.4. Packing group

ADR/RID: III (low danger) IMDG: III (low danger) IATA: III (low danger)

14.5. Environmental hazards

ADR/RID: yes



IMDG Marine pollutant: yes



IATA: yes



14.6. Special precautions for user

ADR/RID: 274/335/375/601/650
IMDG: 274/335/375/969
IATA: A97/A158/A197/A215

Limited Qnantities (LQ):
ADR/RID: 5 L
IMDG: 5 L
IATA: Y964
Excepted Quantities (EQ):
ADR/RID: E1
IMDG: E1 EmS: F-A, S-F
IATA: E1

Hazard Identification Number (Kemler Code): 90

Classification code: M6

14.7. Maritime transport in bulk according to IMO instruments

No data available

15. REGULATORY INFORMATION

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

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

EU Regulations
This product contains octylphenol ethoxylates which are subject to REACH authorization. Uses are strictly limited to scientific research and development or in vitro diagnostics according to REACH Article 56.

REACH Annex XIV List of substances subject to authorization
Status: Contains a substance listed in Annex XIV (4-(1,1,33,3-tetramethylbutyl)phenol, ethoxylated/Triton X-100).
Sunset Date: 4. January 2021
Application: After the sunset date, the use of this substance/mixture is prohibited unless an authorisation is granted or an exemption applies (e.g., Scientific Research and Development - SR&D).

REACH – Candidate List of Substances of Very High Concern (SVHC) for Authorisation:
Contains an SVHC substance above the threshold of 0.1% (w/w): *4-(1,1,3,3-tetramethylbutyl)phenol, ethoxylated* (Endocrine disrupting properties - environment).
Entry No: 42

REACH Annex XVII (Restrictions)
Status: Applicable/Listed
Reference code/Entry: 3 (or 3(b)/3(c) depending on the specific CLP Classification of the mixture).
Text/Condition of restriction: Liquid substances or mixtures which are regarded as dangerous in accordance with Directive 1999/45/EC or are fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008.

Directive 2012/18/EU of the European Parliament and of the Council of 4 July 2012 on the control of major-accident hazards involving dangerous substances, amending and subsequently repealing Council Directive 96/82/EC (bekannt als **Seveso-III-Directive**).

Category E1: For highly toxic substances (Acute 1/Chronic 1).

National regulations (Germany)

Water hazard class WGK 3 : Highly hazardous to water
Classification according to Annex 1 of the Ordinance on Facilities for Handling Substances Hazardous to Water (AwSV) self-classification.

Storage class (LGK) according to TRGS 510: LGK 12 -Non-combustible liquids.

Employment restriction:

Observe employment restrictions for juveniles according to §22 JArbSchG.
Observe employment restrictions for expectant and nursing mothers according to §11 and §12 MuSchG.

15.2. Chemical safety assessment

No data available

16. OTHER INFORMATION

Further information

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. PAN-Biotech GmbH shall not be held liable for any damage resulting from handling or from contact with the above product. See www.pan-biotech.com or reverse side of invoice or packing slip for additional terms and conditions of sale.