SAFETY DATA SHEET

This Safety Data Sheet (SDS) complies with the requirements of Annex II of Regulation (EC) No. 1907/2006 of the European Parliament and of the Council and subsequent amendments.

SECTION 1. Identification of the substance/ mixture and of the company/ undertaking

1.1 Product Identifier

Product Name	Catalogue Number
vetproof® Influenza A Virus H5-H7 qPCR Kit	KIT250005

1.2 Use of the substance/ preparation

For veterinary *in vitro* use only – for animal use only.

1.3. Details of the supplier of the safety data sheet

BioChek B.V.
Fokkerstraat 14
2811ER Reeuwijk - Netherlands
Tel: +31 (0) 182 582 592 (operating hours 09.00-17.00 CET)
info@biochek.com

1.4 Emergency Telephone

France: (I.N.R.S) +33 (0) 1 45 42 59 59
(Or contact your local Poison Control Centre)

SECTION 2: Hazard Identification

2.1 Classification of the substance or mixture

Not a hazardous mixture according to Regulation (EC) No. 1272/2008.

2.2 Label Elements

REGULATION (EU) 1272/2008

Pictogram:	Not a hazardous substance or mixture.
Signal word:	Not a hazardous substance or mixture.
Hazard statement(s):	Not a hazardous substance or mixture.
Precautionary statement(s):	Not a hazardous substance or mixture.
Other Hazards:	Contains a known or suspected endocrine disruptor

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SECTION 3: Composition/ information on ingredients

The product is a mixture of the hazardous substances listed below along with unlisted non-hazardous substances.

Ingredients	CAS #	EINECS #	Classification	Weight ratio %
Glycerol	56-81-5	200-289-5	N/A	5 – 20%
Triton^{R} X100 (Polyethylene glycol tert-octylphenyl ether)	9002-93-01	618-344-0	Acute Tox. Oral 4 – H302 Eye Irrit. 2 – H319 Aquatic Chronic 2 – H411	< 0.5 %

SECTION 4: First Aid Measures

4.1 Description of first aid measures

General advice
In all cases of doubt, or when symptoms persist, seek medical attention.

If inhaled
In case of inhalation place the person in fresh air – Summon doctor

In case of skin contact
Flush with copious amounts of water for at least 15 minutes. Remove contaminated clothing and shoes. Summon doctor

In case of eye contact
Rinse immediately and as long as possible with plenty of water (for at least 10 minutes). Eyelids should be held away from the eyeball to ensure thorough rinsing. Immediately summon eye specialist

If swallowed
Only when conscious, rinse mouth with water, do not induce vomiting. Summon doctor.

4.2 Most important symptoms and effects, both acute and delayed
Symptoms of exposure may include nausea, vomiting, eye irritation, skin irritation.

4.3 Indication of immediate medical attention and special treatment needed
No data available.

SECTION 5: Firefighting measures

5.1 Extinguishing media
Water, fire extinguishing powder, carbon dioxide or foam

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5.2 Special hazards arising from the substance or mixture
Hazardous decomposition products formed under fire conditions. - COx ; NOx ; HCl

5.3 Advice for firefighters
Wear self-contained breathing apparatus for firefighting if necessary

5.4 Further information
Use water spray to cool unopened containers

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures
Avoid contact with skin, eyes and clothing. Do not breathe vapours; aerosols. Ensure adequate ventilation. Evacuate the danger area, observe emergency procedure.
Use personal protective equipment (see section 8).

6.2 Environmental precautions
Isolate spill area. Do not allow entering drains or watercourses.

6.3 Methods and materials for containment and cleaning up
Contain spill material. Absorb the material with e.g. tissues or other liquid-absorbent material (eg Chemizorb®) place in a container in conformity with local regulations and subsequently, dispose properly and clean up affected area.

6.4 Reference to other sections
Indications about waste treatment, see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling
Avoid contact with skin, eyes and clothing. Wash hands and/or face before taking a break or leaving work.

7.2 Conditions for safe storage, including any incompatibilities
Follow information on labelling and/or user manual.

Keep closed. Shelter from light. Store at a temperature below –15°C.

7.3 Specific end use(s)
Do not eat, drink or smoke in application area.
Keep working clothes separately and do not take them home.

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SECTION 8: Exposure controls/ personal protection

8.1 Control parameters

Components with workplace control parameters

Glycerol

Basis	Value	Threshold value	Comment
FVL	Mean exposition limit value (TWA)	10.0 mg/m^3	Occupational exposure values in France

Additional information: The lists valid during the making were used as basis.

8.2 Exposure Controls

Technical measures
No specific recommendations

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) with integrated side shields or wrap-around protection.

Skin protection
Handle with gloves (nitrile rubber). 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. Wear protective gloves that satisfy the specifications of EU Directive 89/686/EEC and the standard EN374 derived from it. Exact breakthrough times to be found through the manufacturer of the protective gloves and must be observed. Gloves should be removed and replaced if there are any signs of degradation or breakthrough. If used in solution, or mixed with other substances, and under conditions which differ from EN374, contact the supplier of the CE approved gloves.

Body protection
Wear suitable protective clothing.

Respiratory protection
In case of insufficient ventilation, wear respiratory devices and components tested and approved by current government standards.

Control of environmental exposure
Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

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SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state	Liquid	**Density**	Not determined
Colour	Colourless or pinkish	**Relative density air=1**	Not determined
Odour	Odourless	**Solubility in water**	Soluble
Boiling point	Not determined	**pH**	8
Flash point	N/A	**Viscosity**	Not determined
Flammability	N/A	**Oxidising properties**	Not determined
Explosive properties	Not determined	**Conductivity**	Not determined
Vapour pressure	Not determined		

SECTION 10: Stability and reactivity

10.1 Reactivity
Data not available

10.2 Chemical stability
Stable until recommended storage and handling conditions

10.3 Possibility of hazardous reactions
Data not available

10.4 Conditions to avoid
Contact with acids liberates very toxic gas. Heating.

10.5 Incompatible materials
Strong oxidizing agents; strong bases and acids; acid chloride

10.6 Hazardous decomposition products
In case of fire (see Section 5)

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Information about TritonR X100

Acute toxicity oral
LD50 Oral - rat - 1.800 mg/kg

Acute skin toxicity
LD50 Dermale - rabbit - 8.000 mg/kg

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Eye irritation
Rabbit
Result: mild irritation (24h)
(external SDS)

Carcinogenicity /Mutagenicity / Reprotoxicity

Substance of very high concern (SVHC) according to REACH (regulation (N° 1907/2006) ; art. 57c). Added to the list of “Candidate substances”.

Information about glycerol

Acute toxicity oral
LD50 rat
Dose : 12 600 mg/kg
Symptoms: Vomiting, diarrhoea

Acute skin toxicity
LD50 rabbit
Dose : > 18 700 mg/kg
(IUCLID)

Skin irritation
Rabbit
Result: no irritation
(IUCLID)

Eye irritation
Rabbit
Result: no irritation
(external SDS)

Sensitization
Patch test: human
Result: negative
(IUCLID)

In vitro Genotoxicity
Ames test
Result: negative
(IUCLID)

Specific target organ – single exposure
Not classified as specific target organ toxicant - single exposure

Specific target organ – repeated exposure
Not classified as specific target organ toxicant, repeated exposure

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Aspiration hazard
Not classified

11.2 Other information
HEALTH HAZARDS:
CAUTION: This product contains source materials of animal origin. These materials should be handled as though they might contain potentially infectious agents.

SECTION 12: Ecological information

12.1 Toxicity

Information about Triton^{R} X100

Toxicity to fish

LC50
Species: Pimephales promelas
Dose: 8,9 mg/L
Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates

EC50
Species: Daphnia magna
Dose: 26 mg/L
Exposure time: 48 h
(external SDS)

Information about glycerol

Toxicity to fish

LC50
Species: Carassius auratus
Dose: > 5 000 mg/L
Exposure time: 24 h

Toxicity to daphnia and other aquatic invertebrates

EC50
Species: Daphnia magna
Dose: > 10 000 mg/L
Exposure time: 24 h
(external SDS)

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Toxicity to algeas

IC5
Species: Scenedesmus quadricauda
Dose: > 10 000 mg/L
Exposure time: 7 days
(external SDS)

Toxicity to bacteria

EC5
Species: Pseudomonas putida
Dose: > 10 000 mg/L
Exposure time: 16 h
(external SDS)

12.2 Persistence and degradability

Information about glycerol

Biodegradability
Result: readily biodegradable
63%
Exposure time: 14 days
(OCDE guideline 301c)

Information about Triton^{R} X100
Result: slowly biodegradable
36%
Exposure time: 28 days
(external SDS)

12.3 Bioaccumulative potential

Information about glycerol
Partition Coefficient: n-octanol/water
Log POW: - 1.76
Bioaccumulation not expected (Log Pow 1-3)
(external SDS)

Information about Triton^{R} X100
No data available

12.4 Mobility in soil
Data not available.

12.5 Results of PBT and vPvB assessment
Data not available

12.6 Other information
Do not allow entering soil, drains or watercourses

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SECTION 13: Disposal considerations

13.1 Product
Disposal of chemical waste in compliance with corresponding local laws and regulations. We recommend that you contact either the authorities in charge or approved waste disposal companies, which will advise on how to dispose this type of waste.

13.2 Contaminated packaging
Disposal in compliance with corresponding local laws and regulations. Handle contaminated packaging in the same way as the product itself.

13.3 Other Information
If not officially specified differently, non-contaminated packaging may be treated like household waste or recycled.

SECTION 14: Transport information

14.1 UN number
Not regulated for transport

14.2 UN proper shipping name
Not regulated for transport

14.3 Transport hazard classes
Not regulated for transport

14.4 Packaging group
Not regulated for transport

14.5 Environmental hazards
Not applicable

14.6 Special precautions for user
Not applicable

14.7 IATA / ADR / DOT-US / IMDG
Not regulated in the meaning of transport regulations

14.8 Maritime transport in bulk according to IMO instruments
Not applicable

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006 (REACH) Annexe II.

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Regulated explosives precursors
None of the ingredient is listed

Regulated poisons
None of the ingredient is listed

Reportable explosives precursors
None of the ingredient is listed

Reportable poisons
None of the ingredient is listed

Directive 2012/18/EU
Named dangerous substances – ANNEX I
None of the ingredients listed

Classification according to VbF:
No data available

Classification according to VwVwS:

Ingredients	Weight ratio %	Hazard class for the aquatic environment
Triton X-100	<0,9	hazard class 2 - obviously hazardous to water

Substances of very high concern

Ingredients	Weight ratio %	EU – REACH (1907/2006) – Article 59(1) – Candidate list of substances for eventual inclusion in annex XIV
Triton X-100	<0,9	Reason for inclusion Endocrine disrupting properties, Article 57f - environment

Substances subject to authorisation according to REACH, Annexe XVII

Ingredients	Weight ratio %	Substances subject to authorisation according to REACH annex XIV
Triton X-100	<0,9	Intrinsic properties: Endocrine disrupting properties (Article 57(f) - environment) Application date: July 4, 2019 Sunset date: January 4, 2021 Exempted uses: extended latest application and sunset date for the research, development and production of medicinal products or medical devices in view of their use for the diagnosis, treatment or prevention of the coronavirus disease (COVID-19) (42)

15.2 Chemical safety assessment
Data not available

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SECTION 16: Other information

This information only concerns the above-mentioned products and does not need to be valid if used with other product(s) or in any process. The information is correct and complete to our best present knowledge and is given in good faith, but without warranty. It remains the user's own responsibility to make sure that the information is appropriate and complete for his special use of this product.

For diagnostic in vitro use only. On this section

Abbreviations:

ADN	European agreement concerning the international carriage of dangerous goods by waterways
ADR	European agreement concerning the international carriage of dangerous goods by road
CAS	Chemical Abstracts Service number
CLP	Classification, Labelling and Packaging
DOT-US	Department of Transportation (United states)
EC	European Community
ECx	Effective Concentration x%
EINECS	European inventory of Existing Commercial Chemical Substances
GHS	Globally harmonized system of classification and Labelling of Chemicals
IATA	International Air Transport Association
IBC	Intermediate Bulk Container
IC50	Semi-maximum inhibitory concentration
IUCLID	International Uniform Chemical Information Database
IMDG	International Maritime Dangerous Goods Code
IMO	International Maritime Organization
LC50	Lethal Concentration 50%
LD50	Lethal Dose 50%
OECD	Organisation for Economic Co-operation and Development
PBT	Persistent, Bioaccumulative and Toxic
REACH	Registration, Evaluation and Authorisation of CHemicals
RID	Regulations concerning the International Carriage of Goods by Rail
SCL	Lethal concentration threshold
SDS	Security data sheet
STEL	Short term Exposure Limit
TWA	Time Weighted Average
UNxxxx	Number assigned by the United Nations Committee of Experts on the Transport of Dangerous Goods
VbF	Flammable liquids regulations (German regulations)
vPvB	Very Persistent and very Bioaccumulative

Additional information
Not applicable

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