

Material Safety Data Sheet



According to Regulation (CE) n°1907/2006

Reference: ADI541-50	ADI541-50 – BTV4 – MSDS - (EN) -V01 Version: 01	Creation date: 04/07/2024
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1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE and COMPANY

1.1 Product identifier

ADIAVET™ BTV TYPE 4 REAL TIME 50R – A5

CAS No.: N/A

EC No.: N/A

REACH No.: N/A

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

For in vitro diagnostic use only.

1.3 Details of the supplier of the safety data sheet

Company

ADIAGENE SAS
9 rue Gabriel Calloët-Kerbrat
22440 Ploufragan – France

Phone

+33 (0) 2 96 68 40 20

e-mail

biox@biox.com

1.4 Emergency telephone number

Emergency telephone number

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

2. HAZARDS IDENTIFICATION

2.1 Classification of substance or mixture

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

2.2 Label elements

According to Regulation (EC) No. 1272/2008.

Hazard symbol(s) : N/A

H phrase(s) : N/A

P phrase(s) : N/A

2.3 Other hazards

Contains a known or suspected endocrine disruptor

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PBT : No

vPvB : No

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 [®] X100 (Polyethylene glycol tert-octylphenyl ether)	9002-93-1	618-344-0	Acute Tox. Oral 4 – H302 Eye Irrit. 2 – H319 Aquatic Chronic 2 – H411	< 0.5 %

4. FIRST AID MEASURES

4.1 Description of the first aid measure

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.
Skin contact	Flush with copious amounts of water for at least 15 minutes. Remove contaminated clothing and shoes. Summon doctor.
Inhalation	In case of inhalation place the person in fresh air – Summon doctor
Ingestion	Only when conscious, rinse mouth with water, do not induce vomiting. Summon doctor.
General advice	In all cases of doubt, or when symptoms persist, seek medical attention.

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

5. FIRE-FIGHTING MEASURES

5.1 Extinguishing media

Extinguishing agents	Water, fire extinguishing powder, carbon dioxide or foam.
Non-suitable extinguishing agents	None

5.2 Special hazards arising from substance of mixture

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tel. (33) 2 96 68 40 20
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Hazardous decomposition products formed under fire conditions. - CO_x ; NO_x ; HCl

5.3 Advice for firefighters

Protective equipment

Wear self-contained breathing apparatus for firefighting if necessary

Other information

Use water spray to cool unopened containers

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions

Avoid contact with skin, eyes and clothing. Do not breathe vapours; aerosols. Ensure adequate ventilation. Evacuate the danger area, observe emergency procedure.

6.2 Environmental precautions

Isolate spill area. Do not allow entering drains or watercourses.

6.3 Methods and materials for containment and cleaning up

Methods for 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.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling

Safe handling advice

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

Conditions for safe storage

Follow information on labelling and/or user manual.

Requirements for storage

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

7.3 Other information Specific end use(s)

Do not eat, drink or smoke in application area.
Keep working clothes separately and do not take them home.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

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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 control

8.2.1 Appropriate engineering controls:

Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product.

8.2.2 Individual protection measures

Technical measures

No specific recommendations.

Personal protection:

Respiratory

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

Eye

Wear suitable eye/face protection.

Hand

Wear suitable gloves (nitrile rubber)

Skin and body

Wear suitable protective clothing

8.2.3 Environment exposure controls

Prevent product from entering drains. The product must not contaminate groundwater.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Physical state	Liquid
Colour	colourless or pinkish
Odour	Odourless
Boiling point/boiling range	Not determined

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Flash point	N/A
Flammability	N/A
Explosive properties	Not determined
Vapour pressure	Not determined
Density	Not determined
Relative density air=1	Not determined
Solubility in water	Soluble
pH	8
Viscosity	Not determined
Oxidising properties	Not determined
Conductivity	Not determined

10. STABILITY AND REACTIVITY

10.1 Reactivity

Data not available

10.2 Chemical stability

Stable under recommended storage and handling conditions

10.3 Possibility of hazard reaction

Data not available

10.4 Conditions to avoid

Contact with acids liberates very toxic gas. Heating.

10.5 Incompatible material

Strong oxidizing agents; strong bases and acids; acid chloride

10.6 Hazardous decomposition products

In case of fire (see Chapter 5)

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Information about Triton^R X100

- Acute toxicity oral

LD50 Oral - rat - 1.800 mg/kg

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- **Acute skin toxicity**

LD50 Dermale - rabbit - 8.000 mg/kg

- **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, diarrhea

- **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

- **Aspiration hazard**

Not classified

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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.

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)

- *Toxicity to algae*

IC5

Species: Scenedesmus quadricauda

Dose: > 10 000 mg/L

Exposure time: 7 days

(external SDS)

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- 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

13. DISPOSAL CONSIDERATIONS

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.

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

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

14. TRANSPORT INFORMATION

IATA / ADR / DOT-US / IMDG

Not regulated in the meaning of transport regulations

UN number or ID number Not Applicable
UN proper shipping name Not Applicable
Transport hazard class(es) Not Applicable
Packing group Not Applicable

Environmental hazards

Not Applicable

Special precautions for user

Not Applicable

Maritime transport in bulk according to IMO instruments

Not Applicable

15. REGULATORY INFORMATION

This Safety Data Sheet conforms to Regulation (EC) n° 1907/2006 (REACH) Annexe II.

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

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:

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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

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.

ADN	Accord européen relatif au transport international des marchandises dangereuses par voies de navigation intérieures
ADR	Accord européen relative au transport international des marchandises Dangereuses par Route
CAS	Numéro d'enregistrement unique auprès de la banque de données CAS
CE	Communauté Européenne
CEx	Concentration associée à x% de réponse
CI50	Concentration inhibitrice demi maximale
CLP	Classification, étiquetage et emballage
CL50	Concentration létale pour x% d'une population test
DLx	Dose létale pour x% d'une population test
DOT-US	Département des transport (États-Unis)
EINECS	Inventaire européen des substances chimiques commerciales existantes
GHS	Système général harmonisé
IATA	Association du transport aérien international
IBC	Code international pour la construction et l'équipement des navires transportant des produits chimiques dangereux en vrac
IUCLID	Base de données internationale d'informations chimiques
IMDG	Marchandises dangereuses pour le transport maritime international
IMO	Organisation maritime internationale
OCDE	Organisation de coopération et de développement économique

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PBT	Persistant, bioaccumulable et toxique
REACH	Règlement (CE) n° 1907/2006 du Parlement européen et du Conseil concernant l'enregistrement, l'évaluation, l'autorisation et la restriction des produits chimiques
RID	Règlement concernant le transport international ferroviaire de marchandises
SCL	Seuil de concentration létale
SDS	Fiche de données de sécurité
STEL	Limite d'exposition à court terme
TWA	Moyenne pondérée dans le temps
UN xxxx	Numéro attribué pour le comité d'experts des Nations Unies sur le transport des marchandises dangereux
VbF	Règlement sur les liquides inflammables (réglementation allemande)
vPvB	Très persistant et très bioaccumulable